

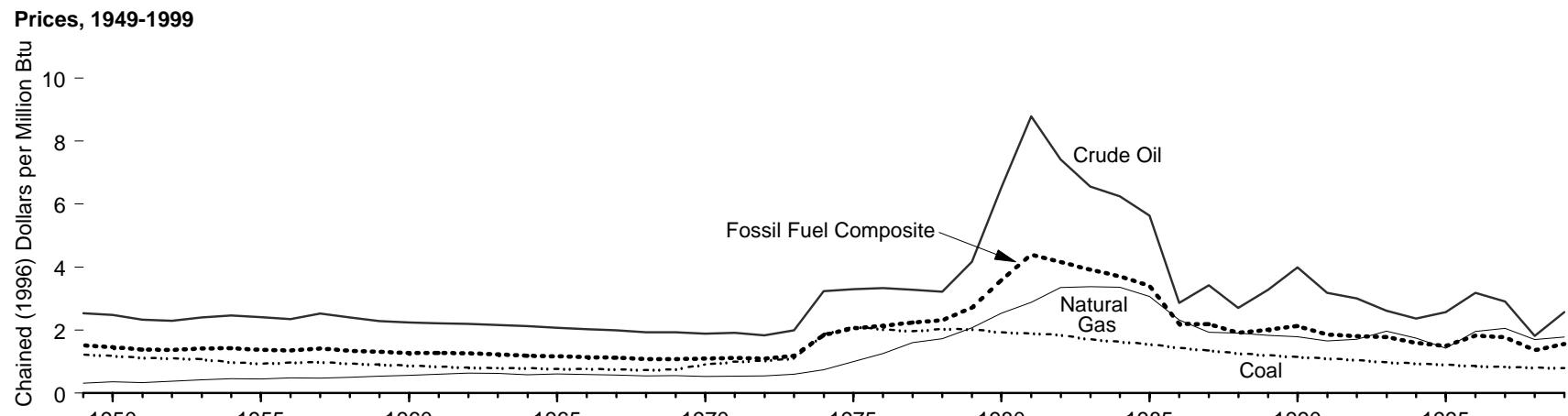
3

Financial Indicators

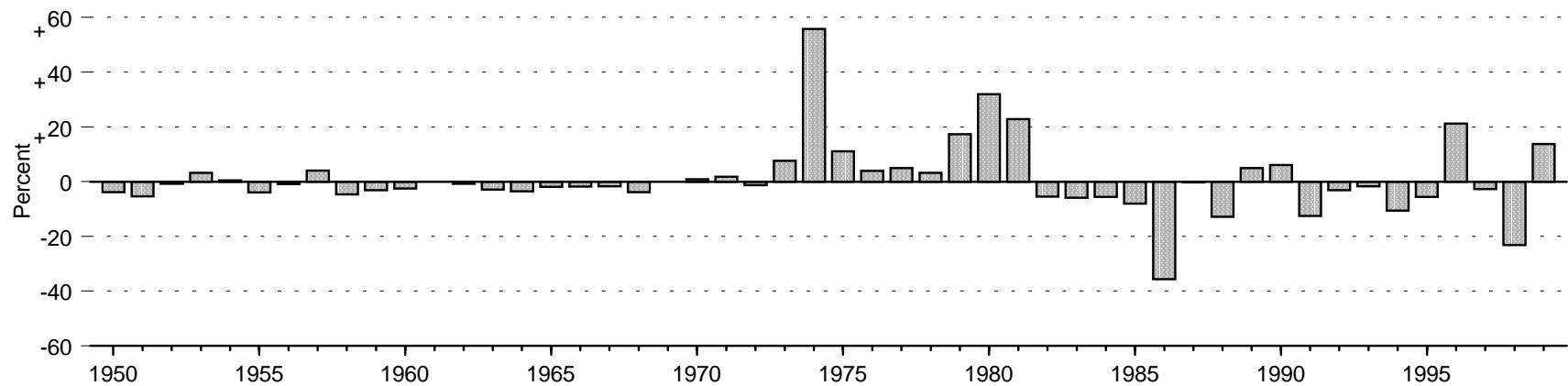


Gas Station, North Carolina, April 1999.

Figure 3.1 Fossil Fuel Production Prices



Fossil Fuel Composite Price, Change from Previous Year, 1950-1999



Note: Prices are in chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

Source: Table 3.1.

Table 3.1 Fossil Fuel Production Prices, 1949-1999
(Dollars per Million Btu)

Year	Coal ¹		Natural Gas ²		Crude Oil ³		Fossil Fuel Composite ⁴		
	Nominal	Real ⁵	Nominal	Real ⁵	Nominal	Real ⁵	Nominal	Real ⁵	Percent Change ⁶
1949	0.21	R1.22	0.05	R0.31	0.44	R2.54	0.26	R1.52	—
1950	0.21	R1.19	0.06	R0.36	0.43	R2.48	0.26	R1.46	-3.8
1951	0.21	R1.13	0.06	R0.34	0.44	R2.33	0.26	R1.38	R-5.3
1952	0.21	R1.10	0.07	R0.38	0.44	R2.30	0.26	R1.37	-0.7
1953	0.21	R1.08	0.08	R0.42	0.46	R2.40	0.27	R1.42	R3.2
1954	0.19	R0.99	0.09	R0.46	0.48	R2.46	0.28	R1.42	0.5
1955	0.19	R0.94	0.09	R0.45	0.48	R2.42	0.27	R1.37	R-3.9
1956	0.20	R0.97	0.10	R0.48	0.48	R2.35	0.28	R1.36	R-0.8
1957	0.21	R0.99	0.10	R0.47	0.53	R2.52	0.30	R1.42	R4.1
1958	0.20	R0.94	0.11	R0.50	0.52	R2.40	0.29	R1.35	R-4.7
1959	0.20	R0.91	0.12	R0.54	0.50	R2.28	0.29	R1.31	R-3.1
1960	0.19	R0.87	0.13	R0.57	0.50	R2.24	0.28	R1.28	R-2.4
1961	0.19	R0.85	0.14	R0.60	0.50	R2.22	0.29	R1.28	0.0
1962	0.19	R0.82	0.14	R0.64	0.50	R2.20	0.29	R1.27	R-0.7
1963	0.18	R0.80	0.14	R0.63	0.50	R2.16	0.28	R1.23	R-2.8
1964	0.18	R0.79	0.14	R0.58	0.50	R2.13	0.28	R1.19	R-3.5
1965	0.18	R0.77	0.14	R0.61	0.49	R2.07	0.28	R1.16	R-1.9
1966	0.19	R0.77	0.14	R0.59	0.50	R2.03	0.28	R1.14	-1.7
1967	0.19	R0.76	0.14	R0.58	0.50	R2.00	0.28	R1.13	-1.6
1968	0.19	R0.74	0.14	R0.54	0.51	R1.93	0.28	R1.08	R-3.8
1969	0.21	R0.76	0.15	R0.56	0.53	R1.93	0.30	R1.08	0.0
1970	0.27	R0.92	0.15	R0.53	0.55	R1.89	0.32	R1.09	R0.9
1971	0.30	R1.00	0.16	R0.53	0.58	R1.91	0.34	R1.11	R1.8
1972	0.33	R1.04	0.17	R0.54	0.58	R1.84	0.35	R1.10	R-1.3
1973	0.37	R1.09	0.20	R0.60	0.67	R2.00	0.40	R1.18	R7.7
1974	0.69	R1.87	0.27	R0.74	1.18	R3.23	0.68	R1.85	55.8
1975	0.84	R2.11	0.40	R1.00	1.32	R3.30	0.82	R2.05	R11.1
1976	0.86	R2.02	0.53	R1.26	1.41	R3.34	0.90	R2.13	R3.9
1977	0.88	R1.96	0.72	R1.61	1.48	R3.28	1.01	R2.24	R5.0
1978	0.98	R2.04	0.84	R1.73	1.55	R3.22	1.12	R2.31	R3.3
1979	1.06	R2.02	1.08	R2.07	2.18	R4.17	1.42	R2.71	R17.3
1980	1.10	R1.93	1.45	R2.54	3.72	R6.52	2.04	R3.58	R32.0
1981	1.18	R1.90	1.80	R2.88	5.48	R8.78	2.74	R4.40	R22.9
1982	1.22	R1.85	2.22	R3.35	4.92	R7.42	2.76	R4.16	R-5.4
1983	1.18	R1.71	2.32	R3.37	4.52	R6.56	2.70	R3.92	R-5.8
1984	1.16	R1.63	2.40	R3.36	4.46	R6.25	2.65	R3.70	-5.5
1985	1.15	R1.56	2.26	R3.06	4.15	R5.64	2.51	R3.41	R-8.0
1986	1.09	R1.44	1.75	R2.32	2.16	R2.86	1.65	R2.20	R-35.6
1987	1.05	R1.36	1.50	R1.94	2.66	R3.42	1.70	R2.19	-0.2
1988	1.01	R1.26	1.52	R1.90	2.17	R2.70	1.53	R1.91	R-12.8
1989	1.00	R1.20	1.53	R1.83	2.73	R3.28	1.67	R2.01	R5.0
1990	1.00	R1.15	1.55	R1.79	3.45	R3.99	1.84	R2.13	R6.1
1991	0.99	R1.10	1.48	R1.65	2.85	R3.18	1.67	R1.86	R-12.5
1992	0.97	R1.06	1.57	R1.71	2.76	R3.00	1.66	R1.80	R-3.1
1993	0.93	R0.99	1.84	R1.96	2.46	R2.61	1.67	R1.78	R-1.6
1994	0.91	R0.94	1.67	R1.74	2.27	R2.37	1.53	R1.59	R-10.5
1995	0.88	R0.90	1.40	R1.43	2.52	R2.57	1.47	R1.50	R-5.5
1996	0.87	R0.87	1.96	R1.96	3.18	R3.18	1.82	R1.82	R21.3
1997	0.85	R0.84	2.10	R2.06	2.97	R2.92	1.81	R1.77	-2.6
1998	0.83	R0.81	R1.75	R1.70	R1.87	R1.82	1.41	R1.36	R-23.1
1999 ^P	70.83	70.80	1.86	1.78	2.68	2.56	71.63	71.55	713.8

¹ Bituminous coal, subbituminous coal, and lignite prices are based on the value of coal produced at free-on-board (f.o.b.) mines; anthracite prices through 1978 are f.o.b. preparation plants and for 1979 forward are f.o.b. mines.

² Wellhead prices.

³ Domestic first purchase prices.

⁴ Derived by multiplying the price per Btu of each fossil fuel by the total Btu content of the production of each fossil fuel and dividing this accumulated value of total fossil fuel production by the accumulated Btu

content of total fossil fuel production.

⁵ In chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

⁶ Based on real values.

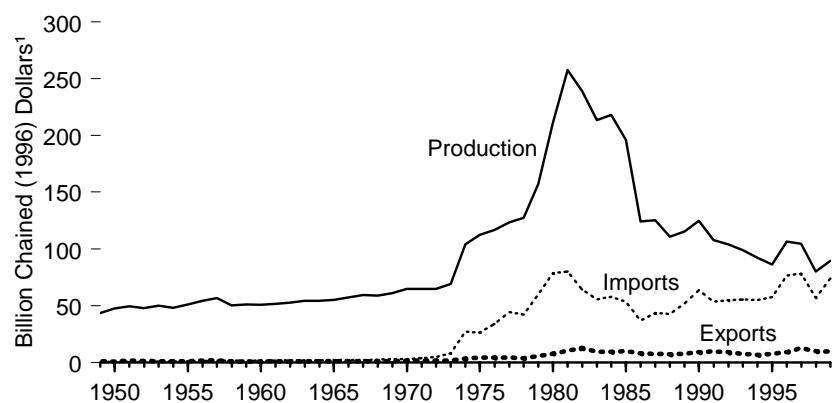
⁷ Calculated using the 1998 coal price for the 1999 value.

R=Revised. P=Preliminary. — = Not applicable.

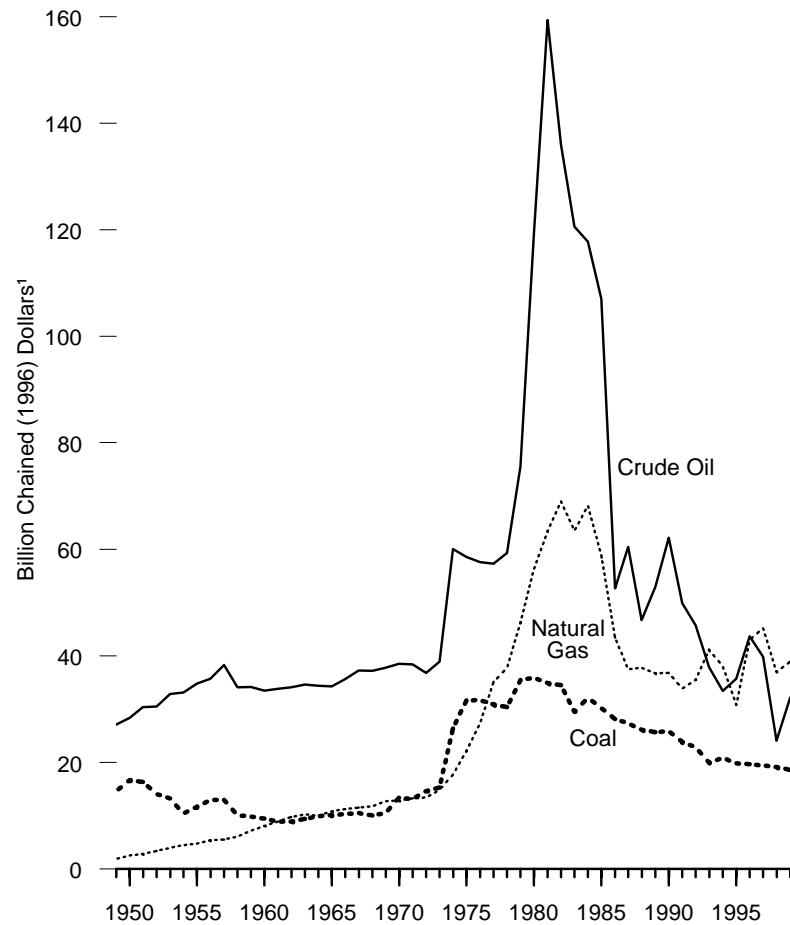
Sources: Tables 5.16, 6.8, and 7.8, and Appendix A.

Figure 3.2 Value of Fossil Fuel Production

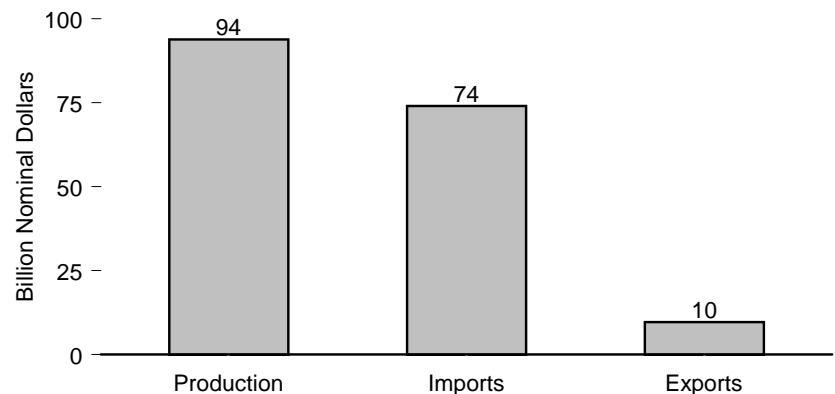
Overview, 1949-1999



Production by Fuel, 1949-1999



Overview, 1999



¹ Prices are in chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

Sources: Tables 3.2, 3.5, and 3.6.

Note: Because vertical scales differ, graphs should not be compared.

Table 3.2 Value of Fossil Fuel Production, 1949-1999
(Billion Dollars)

Year	Coal		Natural Gas ¹		Crude Oil ²		Total	
	Nominal	Real ³	Nominal	Real ³	Nominal	Real ³	Nominal	Real ³
1949	2.52	R14.60	0.33	R1.91	4.68	R27.11	7.53	R43.62
1950	2.91	R16.68	0.44	R2.52	4.95	R28.37	8.30	R47.57
1951	3.05	R16.30	0.52	R2.78	5.69	R30.41	9.26	R49.49
1952	2.67	R14.05	0.64	R3.37	5.79	R30.47	9.10	R47.89
1953	2.55	R13.25	0.76	R3.95	6.32	R32.83	9.63	R50.03
1954	2.02	R10.39	0.87	R4.48	6.44	R33.13	9.33	R48.00
1955	2.30	R11.63	0.94	R4.75	6.88	R34.78	10.12	R51.16
1956	2.65	R12.96	1.11	R5.43	7.30	R35.70	11.06	R54.09
1957	2.74	R12.97	1.17	R5.54	8.09	R38.29	12.00	R56.80
1958	2.19	R10.12	1.32	R6.10	7.37	R34.06	10.88	R50.28
1959	2.14	R9.78	1.57	R7.18	7.47	R34.14	11.18	R51.10
1960	2.10	R9.46	1.79	R8.07	7.42	R33.44	11.31	R50.97
1961	1.99	R8.87	1.99	R8.87	7.58	R33.78	11.56	R51.52
1962	2.03	R8.93	2.22	R9.76	7.76	R34.12	12.01	R52.81
1963	2.17	R9.43	2.36	R10.26	7.96	R34.61	12.49	R54.30
1964	2.32	R9.94	2.33	R9.98	8.03	R34.40	12.68	R54.32
1965	2.40	R10.09	2.57	R10.81	8.15	R34.27	13.12	R55.17
1966	2.53	R10.34	2.75	R11.24	8.72	R35.65	14.00	R57.23
1967	2.65	R10.51	2.91	R11.54	9.39	R37.25	14.95	R59.30
1968	2.64	R10.04	3.09	R11.75	9.79	R37.22	15.52	R59.01
1969	2.90	R10.51	3.52	R12.76	10.42	R37.77	16.84	R61.04
1970	3.88	R13.35	3.73	R12.84	11.19	R38.51	18.80	R64.70
1971	4.01	R13.14	4.05	R13.27	11.71	R38.37	19.77	R64.78
1972	4.65	R14.61	4.28	R13.45	11.71	R36.80	20.64	R64.86
1973	5.14	R15.30	4.98	R14.82	13.07	R38.90	23.19	R69.02
1974	9.65	R26.35	6.48	R17.70	22.00	R60.08	38.13	R104.13
1975	12.67	R31.65	8.85	R22.11	23.45	R58.58	44.97	R112.34
1976	13.40	R31.68	11.57	R27.35	24.37	R57.61	49.34	R116.64
1977	13.91	R30.90	15.82	R35.14	25.79	R57.29	55.52	R123.33
1978	14.65	R30.38	18.18	R37.69	28.60	R59.30	61.43	R127.37
1979	18.55	R35.50	24.16	R46.24	39.45	R75.50	82.16	R157.24
1980	20.45	R35.85	32.09	R56.26	67.93	R119.09	120.47	R211.20
1981	21.75	R34.87	39.51	R63.35	99.40	R159.37	160.66	R257.59
1982	22.84	R34.48	45.71	R69.00	90.03	R135.89	158.58	R239.37
1983	20.32	R29.50	43.73	R63.49	83.05	R120.57	147.10	R213.56
1984	22.94	R32.11	48.69	R68.16	84.10	R117.72	155.73	R217.99
1985	22.27	R30.22	43.35	R58.83	78.88	R107.04	144.50	R196.09
1986	21.18	R28.12	32.71	R43.43	39.63	R52.62	93.52	R124.17
1987	21.20	R27.33	29.11	R37.52	46.93	R60.49	97.24	R125.34
1988	20.97	R26.14	30.28	R37.75	37.48	R46.73	88.73	R110.62
1989	21.40	R25.70	30.58	R36.72	44.07	R52.92	96.05	R115.34
1990	22.39	R25.88	31.80	R36.76	53.77	R62.15	107.96	R124.79
1991	21.40	R23.87	30.39	R33.89	44.77	R49.93	96.56	R107.69
1992	20.98	R22.84	32.56	R35.45	41.97	R45.70	95.51	R103.99
1993	18.77	R19.96	38.72	R41.17	35.61	R37.86	93.10	R98.99
1994	20.06	R20.89	36.46	R37.98	32.07	R33.40	88.59	R92.27
1995	19.45	R19.83	30.24	R30.83	35.00	R35.68	84.69	R86.34
1996	19.68	R19.68	R42.99	R42.99	43.68	R43.68	R106.35	R106.35
1997	19.77	R19.40	46.09	R45.23	40.57	R39.81	106.43	R104.44
1998	R19.75	R19.15	R38.11	R36.96	R24.80	R24.05	R82.66	R80.16
1999 ^P	419.42	418.56	40.71	38.92	33.65	32.17	493.78	489.65

¹ Marketed production.

² Includes lease condensate.

³ In chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

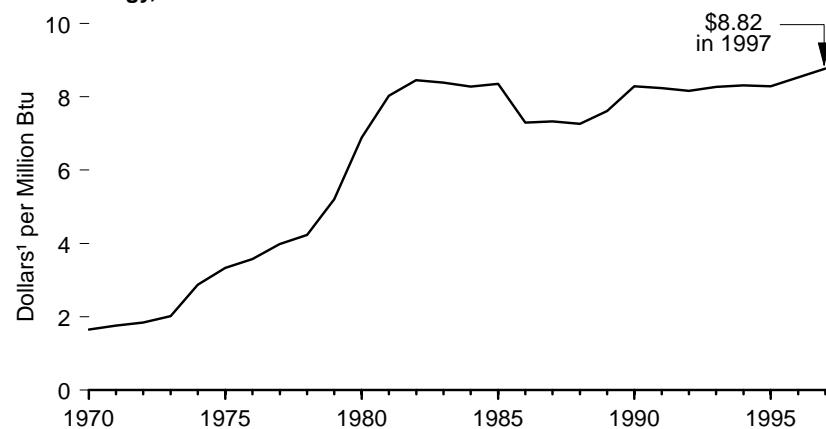
⁴ Calculated using the 1998 coal price for the 1999 value.

R=Revised. P=Preliminary.

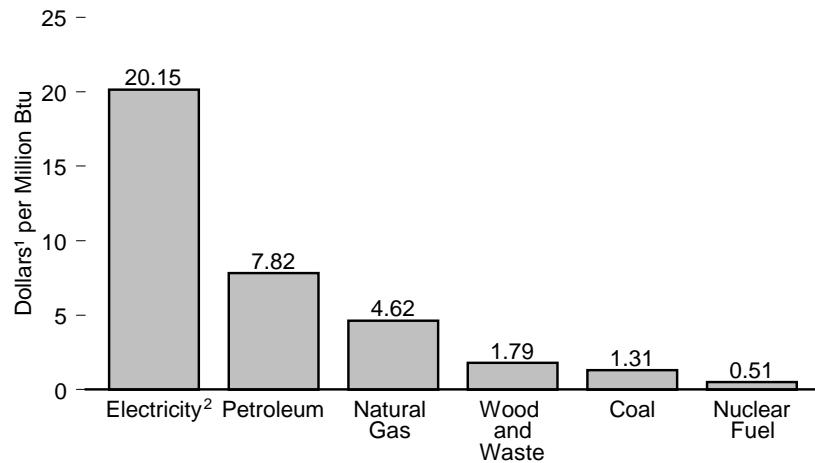
Note: Value is based on fuel prices taken as closely as possible to the point of production.
Sources: Tables 5.1, 5.16, 6.2, 6.8, 7.2, and 7.8.

Figure 3.3 Consumer Price Estimates for Energy

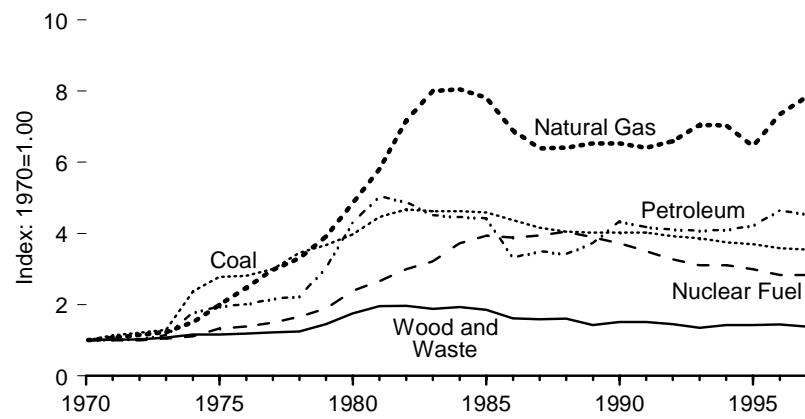
Total Energy, 1970-1997



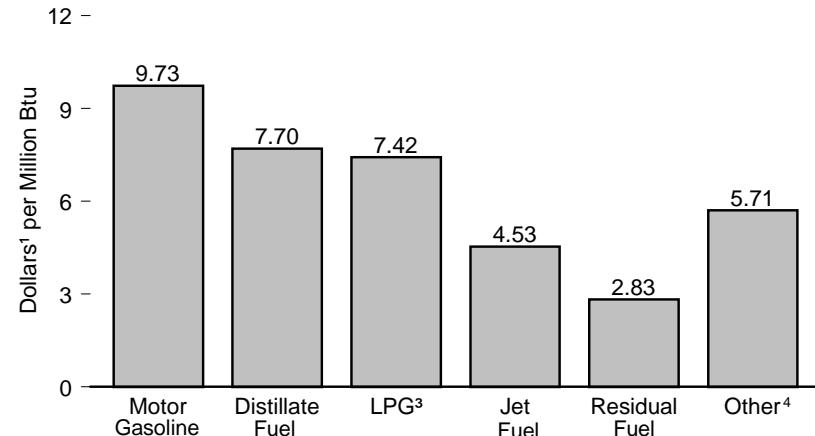
By Energy Type, 1997



Prices by Energy Type, Indexed, 1970-1997



By Petroleum Product, 1997



¹ Nominal dollars.

² Electricity purchased by end users.

³ Liquefied petroleum gases.

⁴ Asphalt and road oil, aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special naphthas, waxes, and miscellaneous petroleum products.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 3.3.

Table 3.3 Consumer Price Estimates for Energy, 1970-1997

(Nominal Dollars per Million Btu)

Year	Primary Energy ¹										Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ⁴		
	Coal	Natural Gas	Petroleum						Nuclear Fuel	Wood and Waste	Total ⁴				
			Distillate Fuel	Jet Fuel	LPG ²	Motor Gasoline	Residual Fuel	Other ³							
1970	0.37	0.59	1.16	0.73	1.46	2.85	0.42	R1.38	R1.72	0.18	R1.29	1.08	0.32	R4.98	1.65
1971	0.42	0.63	1.22	0.77	1.49	2.90	0.58	R1.44	R1.79	0.18	R1.31	R1.15	0.38	5.30	1.76
1972	0.45	0.68	1.22	0.79	1.52	2.88	0.62	R1.49	1.78	0.18	R1.33	R1.18	0.41	5.54	1.84
1973	0.48	0.73	1.46	0.92	2.02	3.10	0.75	R1.57	R1.97	0.19	R1.39	1.29	0.46	5.86	2.02
1974	0.88	0.89	2.44	1.58	2.81	4.32	1.82	R2.59	R3.06	0.20	R1.50	1.94	0.86	7.42	2.87
1975	1.03	1.18	2.60	2.05	2.97	4.65	1.93	R2.92	R3.35	0.24	R1.50	2.19	0.96	8.61	3.33
1976	1.04	1.46	2.77	2.25	3.21	4.84	1.90	R3.07	R3.47	0.25	R1.53	2.34	1.02	9.13	3.57
1977	1.11	1.76	3.11	2.59	3.65	5.13	2.14	R3.25	R3.73	0.27	R1.58	R2.57	1.16	10.11	R3.98
1978	1.28	1.95	3.26	2.87	3.60	5.24	2.08	R3.44	R3.84	0.30	R1.61	R2.71	1.25	10.92	R4.23
1979	1.36	2.31	4.69	3.90	4.50	7.11	2.83	R4.69	R5.23	0.34	R1.88	3.47	1.48	11.78	R5.21
1980	1.47	2.86	6.70	6.36	5.64	9.84	3.88	R7.02	R7.40	0.43	R2.26	R4.57	1.75	13.95	R6.89
1981	1.65	3.43	8.03	7.57	6.18	10.94	4.91	R8.63	R8.68	0.48	R2.53	R5.24	2.00	16.14	R8.03
1982	1.73	4.23	7.78	7.23	6.66	10.39	4.65	R7.83	R8.39	0.54	R2.54	R5.32	2.01	18.16	R8.46
1983	1.71	4.72	7.32	6.53	7.17	9.12	4.50	R7.58	R7.77	0.58	R2.43	R5.11	1.98	18.62	R8.39
1984	1.71	4.75	7.36	6.25	6.93	8.89	4.75	R7.64	R7.67	0.67	R2.50	R5.02	1.97	18.50	R8.28
1985	1.70	4.61	7.18	5.91	6.54	9.01	4.30	R7.52	R7.62	0.71	R2.40	R4.90	1.85	19.05	R8.36
1986	1.62	4.07	5.66	3.92	6.42	6.79	2.37	R5.77	R5.72	0.70	R2.09	R3.95	1.55	R19.05	R7.30
1987	1.54	3.77	5.94	4.03	6.06	7.22	2.86	R5.59	R6.03	0.71	R2.06	R3.97	1.51	18.74	R7.33
1988	1.50	3.78	5.80	3.80	5.86	7.32	2.35	R5.23	R5.90	0.73	R2.07	R3.87	1.45	18.68	R7.26
1989	1.49	3.85	6.45	4.39	5.53	8.01	2.72	R5.47	R6.42	0.70	R1.85	R4.09	1.48	18.98	R7.61
1990	1.49	3.85	7.70	5.68	6.75	9.12	3.16	R5.80	R7.47	0.67	R51.95	R5.450	1.46	19.33	R58.29
1991	1.49	3.78	7.28	4.83	6.79	8.93	2.62	R5.72	R7.19	0.63	R1.96	4.32	1.37	19.85	R8.24
1992	R1.45	3.89	7.11	4.52	6.19	8.96	2.27	R5.49	R7.07	0.59	R1.88	4.29	1.34	R20.06	R8.17
1993	1.43	4.16	7.10	4.29	6.20	8.82	2.25	R5.47	R7.01	0.56	R1.74	R4.31	1.35	20.38	R8.27
1994	R1.39	4.15	7.03	3.95	6.61	8.91	2.32	R5.46	R7.05	0.56	R1.84	4.32	1.30	20.34	R8.31
1995	1.37	3.81	7.02	4.00	6.54	9.14	2.46	R5.72	R7.26	0.54	R1.84	4.29	1.23	20.30	R8.29
1996	1.33	4.33	7.90	4.82	7.91	9.77	2.79	6.22	7.99	0.51	1.86	4.70	1.28	20.17	8.77
1997	1.31	4.62	7.70	4.53	7.42	9.73	2.83	5.71	7.82	0.51	1.79	4.72	1.30	20.15	8.82

¹ Primary energy is all energy, including that consumed to produce electricity but excluding the electricity produced.

² Liquefied petroleum gases.

³ Asphalt and road oil, aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special napthas, waxes, and miscellaneous petroleum products.

⁴ The "Primary Energy Total" and "Total Energy" prices include consumption-weighted average prices for coal coke imports and coal coke exports that are not shown in the other columns. In 1995, coal coke

imports averaged 3.49 dollars per million Btu and coal coke exports averaged 2.71 dollars per million Btu.

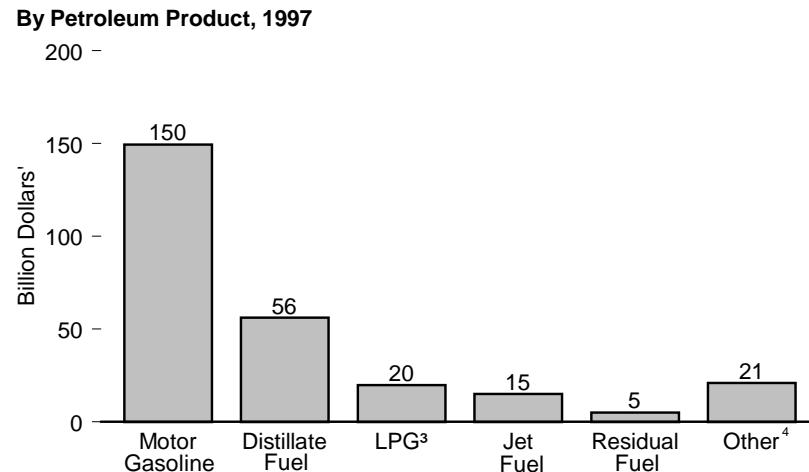
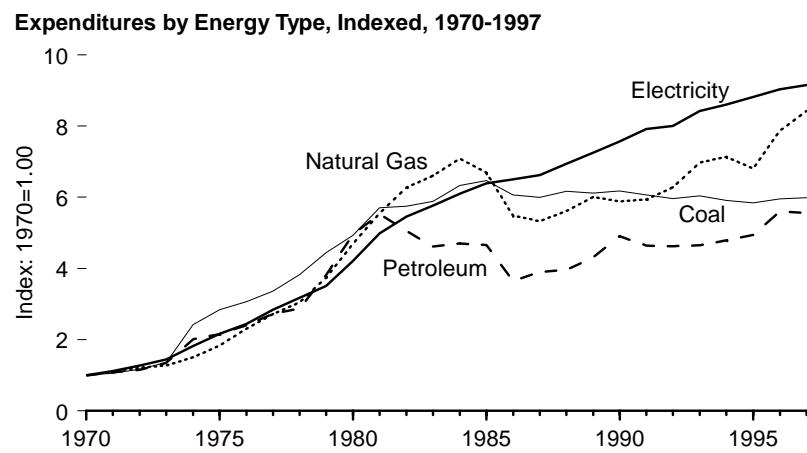
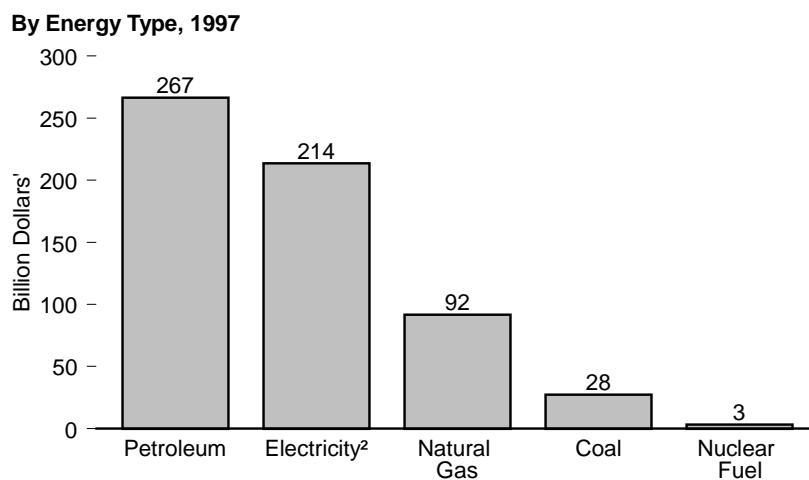
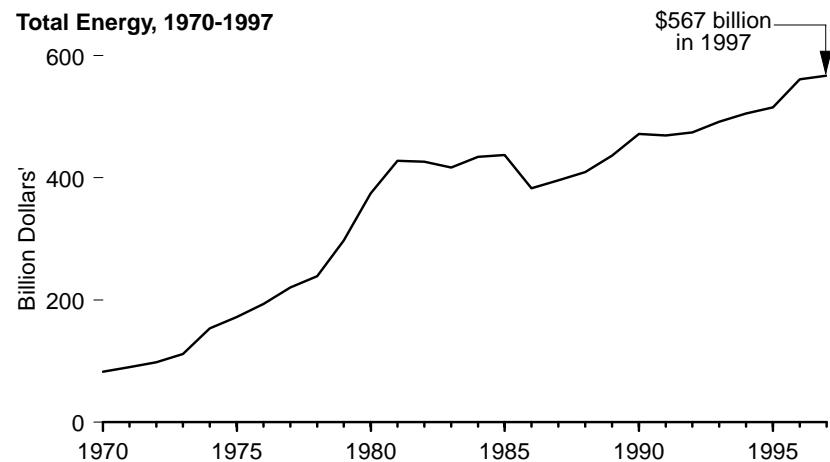
⁵ There is a discontinuity in this time series between 1989 and 1990 due to expanded coverage of nonutility power producers' use of wood and waste beginning in 1990.

Note: There are no direct fuel costs for hydroelectric, geothermal, wind, or solar energy.

Web Page: http://www.eia.doe.gov/emeu/states/_states.html

Source: Energy Information Administration (EIA), *State Energy Price and Expenditure Report 1997* (June 2000), Table 5, and EIA, Combined State Energy Data System 1997.

Figure 3.4 Consumer Expenditure Estimates for Energy



¹ Nominal dollars.

² Electricity purchased by end users.

³ Liquefied petroleum gases.

⁴ Asphalt and road oil, aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special naphthas, waxes, and miscellaneous petroleum products.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 3.4.

Table 3.4 Consumer Expenditure Estimates for Energy, 1970-1997

(Million Nominal Dollars)

Year	Primary Energy ¹											Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy		
	Coal	Net Imports of Coal Coke ²	Natural Gas	Petroleum						Nuclear Fuel	Wood and Waste	Total				
				Distillate Fuel	Jet Fuel	LPG ³	Motor Gasoline	Residual Fuel	Other ⁴							
1970	4,594	-75	10,891	6,253	1,441	2,446	31,596	2,046	R4,160	R47,942	44	R438	R63,833	-4,316	R23,345	R82,862
1971	4,883	-40	12,065	6,890	1,582	2,531	33,478	R2,934	R4,429	R51,844	73	R446	R69,271	-5,441	R26,202	R90,032
1972	5,412	-26	13,198	7,552	1,682	2,889	35,346	3,458	R4,755	R55,682	104	R476	R74,845	-6,473	R29,712	R98,084
1973	6,251	7	13,933	9,524	2,001	3,933	39,667	4,667	R5,299	R65,091	R178	R502	R85,961	-7,817	R33,774	R411,918
1974	11,145	150	16,380	R15,218	3,208	5,273	54,194	R10,548	R8,263	R96,704	259	R544	R125,182	-14,391	R42,586	R153,377
1975	13,047	82	20,061	15,680	4,193	R5,230	59,446	10,374	R8,449	R103,372	448	R534	R137,544	-16,396	50,680	R171,828
1976	14,079	44	25,097	18,402	4,567	5,993	64,977	11,648	R9,881	R115,468	520	R622	R155,830	-18,923	R56,972	R193,880
1977	15,448	67	29,602	22,004	5,517	6,824	70,591	14,381	R11,719	R131,036	743	R694	R177,590	-23,392	66,225	R220,423
1978	17,595	362	33,185	23,587	6,205	6,621	74,513	13,747	R13,294	R137,967	915	R782	R190,806	-25,746	R74,159	R239,219
1979	20,421	259	40,785	32,854	8,603	9,383	95,916	17,656	R18,761	R183,173	941	R964	R246,543	-31,031	R82,051	R297,563
1980	22,648	-78	R51,062	40,797	13,923	10,926	124,408	21,573	R26,001	R237,628	1,189	R1,251	R313,699	-37,435	R98,095	R374,359
1981	26,231	-31	60,544	48,200	15,607	11,900	138,138	22,668	R28,444	R264,957	1,436	R1,452	R354,589	-43,275	R116,455	R427,769
1982	26,426	-52	68,292	44,087	14,974	R12,926	R130,306	17,632	R22,354	R242,279	1,684	R1,475	R340,105	-41,311	R127,393	R426,187
1983	27,051	-44	72,000	41,846	13,979	14,083	115,816	14,099	R21,535	R221,358	1,859	R1,504	R323,728	-41,336	R134,731	R417,124
1984	R29,093	-22	77,169	44,580	15,097	14,143	114,438	14,410	R22,575	R225,243	2,384	R1,552	R335,418	-43,378	R142,420	R434,460
1985	R29,723	-34	72,938	43,759	14,747	13,545	R118,042	11,493	R22,005	R223,591	2,930	R1,471	R330,618	-42,558	R149,233	R437,292
1986	R27,895	-40	59,702	34,995	10,505	12,694	91,526	7,486	R17,579	R174,785	3,125	R1,299	R266,765	R35,792	R151,793	R382,766
1987	R27,566	7	58,019	37,587	11,448	12,859	R99,803	8,062	R17,581	R187,340	3,486	R1,278	R277,696	-36,692	R154,685	R395,689
1988	R28,366	116	61,089	38,593	11,318	12,775	R103,206	7,259	R16,673	R189,824	4,111	R1,334	R284,841	-37,435	R162,063	R409,468
1989	R28,105	137	65,383	43,246	13,434	12,154	R112,586	8,354	R16,965	R206,739	3,992	R1,670	R306,125	R38,995	R169,332	R436,463
1990	R28,372	22	64,102	49,430	17,784	13,680	R126,454	8,707	R19,169	R235,224	4,142	R5,1628	R533,325	R38,276	R176,737	R5471,786
1991	R27,871	42	64,697	45,181	14,609	14,922	R123,048	6,786	R18,162	R222,708	4,172	R1,703	R321,227	R36,534	R184,814	R469,507
1992	R27,409	99	68,400	45,110	13,559	R14,162	R125,156	5,575	R18,267	R221,829	3,878	R1,711	R323,378	R35,817	R186,954	R474,515
1993	R27,764	56	75,941	R45,884	13,002	13,961	R126,401	5,439	R18,249	R229,936	3,658	R1,621	R332,016	R36,692	R196,579	R491,904
1994	R27,186	92	77,716	47,240	12,474	16,253	R129,896	5,288	R18,653	R229,804	3,858	R1,934	R340,801	R36,166	R200,883	R505,518
1995	R26,861	R104	74,150	47,845	R12,526	16,250	136,475	4,667	R19,174	R236,937	R3,864	R2,143	R344,199	R34,810	R205,932	R515,321
1996	27,368	46	85,634	56,675	15,770	20,898	148,230	5,297	21,201	268,071	3,666	2,215	387,076	-36,614	211,011	561,473
1997	27,522	72	91,769	56,199	15,000	19,865	149,549	5,036	20,946	266,595	3,396	1,986	391,489	-37,815	213,645	567,318

¹ Primary energy is all energy, including that consumed to produce electricity but excluding the electricity produced.

² Values derive from U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM-145" and "Monthly Report IM-545," and may differ slightly from those shown on Table 3.7, which derive from Bureau of the Census, U.S. *International Trade in Goods and Services*. FT600 series.

³ Liquefied petroleum gases.

⁴ Asphalt and road oil, aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special naphthas, waxes, and miscellaneous petroleum products.

⁵ There is a discontinuity in this time series between 1989 and 1990 due to expanded coverage of nonutility power producers' use of wood and waste beginning in 1990.

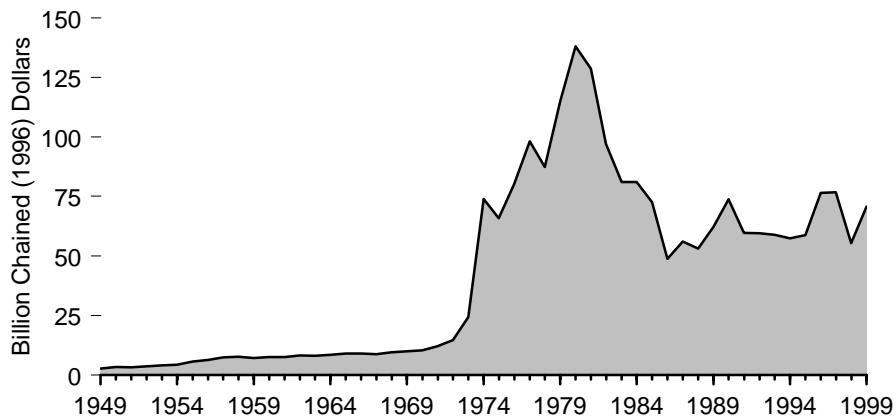
Notes: • There are no direct fuel costs for hydroelectric, geothermal, wind, or solar energy. • Totals may not equal the sum of components due to independent rounding.

Web Page: http://www.eia.doe.gov/emeu/states/_states.html.

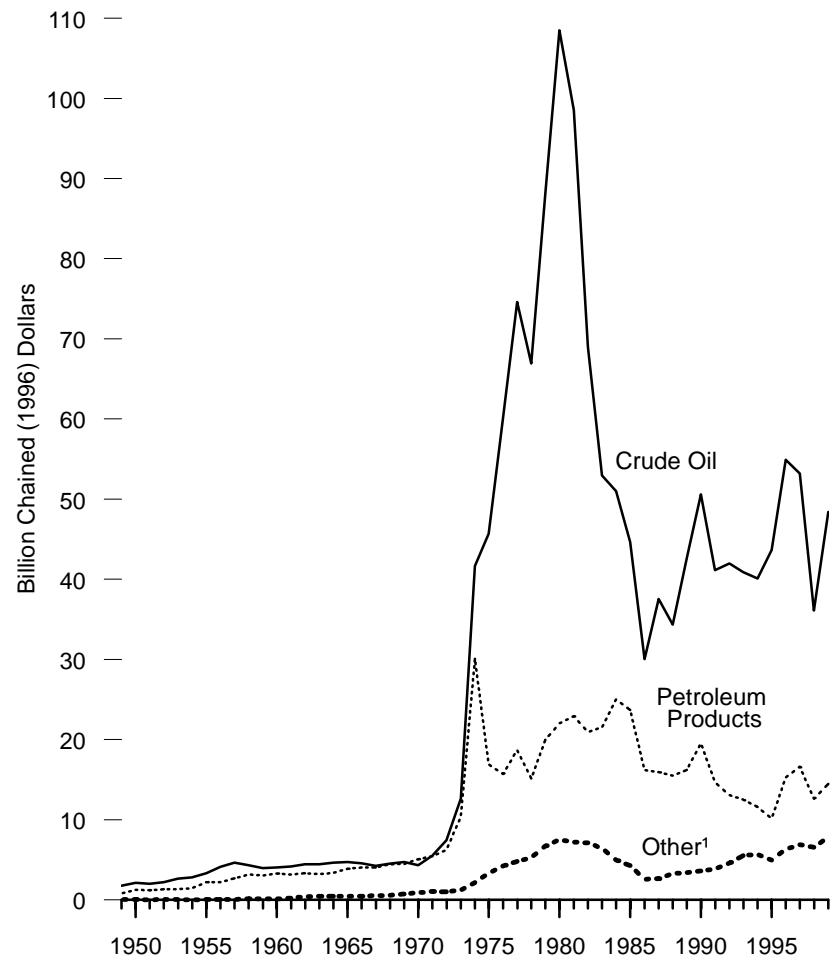
Source: Energy Information Administration (EIA), *State Energy Price and Expenditure Report 1997* (June 2000), Table 5, and EIA, Combined State Energy Data System 1997.

Figure 3.5 Value of Fossil Fuel Imports

Total, 1949-1999



By Fuel, 1949-1999



¹ Natural gas, coal, and coal coke.

Notes: • Prices are in chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1. • Because vertical scales differ, graphs should not be compared.

Source: Table 3.5.

Table 3.5 Value of Fossil Fuel Imports, 1949-1999
(Billion Dollars)

Year	Coal		Coal Coke		Natural Gas		Crude Oil ¹		Petroleum Products ²		Total	
	Nominal	Real ³	Nominal	Real ³	Nominal	Real ³	Nominal	Real ³	Nominal	Real ³	Nominal	Real ³
1949	(s)	0.01	(s)	0.02	0.00	0.00	0.30	R1.77	0.14	R0.79	0.45	R2.60
1950	(s)	R0.02	0.01	0.03	0.00	0.00	0.37	R2.12	0.21	R1.23	0.59	R3.39
1951	(s)	0.01	(s)	0.01	0.00	0.00	0.37	R2.00	0.23	R1.21	0.61	R3.24
1952	(s)	0.01	(s)	0.02	(s)	(s)	0.42	R2.23	0.25	R1.33	0.68	R3.60
1953	(s)	0.01	(s)	0.01	(s)	(s)	0.51	R2.65	0.25	R1.31	0.77	R3.98
1954	(s)	0.01	(s)	0.01	(s)	(s)	0.54	R2.80	0.28	R1.46	0.83	R4.28
1955	(s)	0.01	(s)	0.01	(s)	(s)	0.65	R3.31	0.44	R2.23	1.10	R5.57
1956	(s)	0.01	(s)	0.01	(s)	R0.01	0.84	R4.10	0.45	R2.19	1.29	R6.31
1957	(s)	0.01	(s)	0.01	(s)	R0.02	0.98	R4.64	0.57	R2.69	1.56	R7.36
1958	(s)	0.01	(s)	0.01	0.02	0.10	0.94	R4.34	0.68	R3.16	1.65	R7.63
1959	(s)	0.01	(s)	0.01	0.03	R0.12	0.87	R3.99	0.66	R3.03	1.57	R7.16
1960	(s)	0.01	(s)	0.01	0.03	R0.13	0.90	R4.03	0.73	R3.30	1.66	R7.47
1961	(s)	0.01	(s)	0.01	0.04	R0.20	0.93	R4.16	0.71	R3.16	1.69	R7.54
1962	(s)	0.01	(s)	0.01	0.09	R0.38	1.01	R4.45	0.75	R3.31	1.86	R8.16
1963	(s)	0.01	(s)	0.01	0.10	R0.43	1.03	R4.46	0.74	R3.21	1.87	R8.11
1964	(s)	0.01	(s)	0.01	0.10	R0.43	1.08	R4.63	0.78	R3.35	1.97	R8.43
1965	(s)	0.01	(s)	0.01	0.11	R0.44	1.12	R4.71	0.92	R3.88	2.15	R9.05
1966	(s)	0.01	(s)	0.01	0.11	R0.43	1.12	R4.56	0.99	R4.04	2.21	R9.04
1967	(s)	0.01	(s)	0.01	0.13	R0.51	1.06	R4.22	1.02	R4.03	2.21	R8.78
1968	(s)	0.01	(s)	0.01	0.15	R0.56	1.18	R4.50	1.16	R4.43	2.50	R9.50
1969	(s)	(s)	(s)	0.01	0.20	R0.71	1.30	R4.71	1.24	R4.49	2.74	R9.92
1970	(s)	(s)	(s)	0.01	0.26	R0.89	1.26	R4.34	1.48	R5.10	3.00	R10.34
1971	(s)	0.01	0.01	0.02	0.31	R1.02	1.69	R5.53	1.66	R5.43	3.66	R12.00
1972	(s)	(s)	(s)	0.01	0.31	R0.99	2.37	R7.45	1.99	R6.25	4.68	R14.70
1973	(s)	(s)	0.04	R0.12	0.36	R1.08	4.24	R12.62	3.50	R10.41	8.14	R24.23
1974	0.06	R0.16	0.19	R0.53	0.53	R1.45	15.25	R41.65	11.01	R30.07	27.05	R73.86
1975	0.02	0.05	0.16	R0.39	1.15	R2.88	18.29	R45.69	6.77	R16.91	26.39	R65.92
1976	0.02	0.04	0.11	R0.26	1.66	R3.92	25.46	R60.18	6.65	R15.72	33.90	R80.13
1977	0.04	R0.09	0.13	R0.29	2.00	R4.44	33.59	R74.61	8.42	R18.70	44.18	R98.13
1978	0.07	0.15	0.41	R0.85	2.06	R4.27	32.30	R66.97	7.30	R15.14	42.15	R87.38
1979	0.05	R0.10	0.34	R0.65	3.13	R5.98	46.06	R88.15	10.45	R20.00	60.03	R114.88
1980	0.03	0.05	0.05	0.09	4.21	R7.39	61.90	R108.52	12.54	R21.99	78.74	R138.04
1981	0.03	0.05	0.04	R0.07	4.41	R7.07	61.46	R98.54	14.30	R22.92	80.24	R128.65
1982	0.02	0.03	0.01	0.01	4.69	R7.09	45.72	R69.02	13.86	R20.92	64.31	R97.08
1983	0.04	0.06	(s)	(s)	4.39	R6.37	36.49	R52.98	14.84	R21.55	55.77	R80.96
1984	0.05	0.06	0.05	R0.07	3.44	R4.81	36.44	R51.01	17.87	R25.01	57.84	R80.96
1985	0.07	R0.10	0.04	R0.06	3.05	R4.14	32.90	R44.65	17.47	R23.70	53.53	R72.64
1986	0.08	R0.11	0.03	0.03	1.82	R2.42	22.61	R30.02	12.18	R16.18	36.72	R48.75
1987	0.06	0.07	0.05	0.07	1.93	R2.49	29.13	R37.55	12.37	R15.94	43.54	R56.12
1988	0.06	R0.08	0.19	R0.24	2.38	R2.97	27.55	R34.34	12.43	R15.50	42.62	R53.13
1989	0.10	R0.12	0.22	R0.26	2.51	R3.01	35.53	R42.67	13.50	R16.21	51.85	R62.26
1990	0.09	R0.11	0.07	0.08	2.97	R3.44	43.78	R50.61	16.90	R19.54	63.83	R73.78
1991	0.11	R0.13	0.09	0.10	3.24	R3.61	36.90	R41.16	13.17	R14.69	53.51	R59.68
1992	0.13	R0.14	0.14	R0.16	3.96	R4.31	38.55	R41.98	11.98	R13.05	54.77	R59.63
1993	R0.25	R0.27	R0.17	R0.18	4.77	R5.07	38.47	R40.90	11.74	R12.48	R55.40	R58.90
1994	R0.27	R0.28	R0.27	R0.29	4.90	R5.11	38.48	R40.08	11.14	R11.61	R55.07	R57.36
1995	R0.32	R0.33	R0.33	R0.33	4.23	R4.31	42.81	R43.64	9.95	R10.14	R57.64	R58.75
1996	R0.27	R0.27	R0.24	R0.24	5.79	R5.79	54.93	R54.93	15.27	R15.27	R76.51	R76.51
1997	0.26	R0.25	R0.25	R0.25	6.50	R6.37	54.23	R53.21	R416.93	R416.61	R78.16	R76.69
1998	0.28	R0.27	R0.29	R0.28	R6.21	R6.02	R37.25	R36.13	13.01	R12.62	R57.05	R55.33
1999 ^P	0.28	0.27	0.23	0.22	7.70	7.36	50.66	48.43	15.14	14.47	74.00	70.74

¹ Includes imports into the Strategic Petroleum Reserve, which began in 1977.

² Includes petroleum preparations; liquefied propane; and butane; and since 1997 other mineral fuels.

³ In chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

⁴ There is a discontinuity in this time series between 1996 and 1997 due to the addition of the commodity category "other mineral fuels."

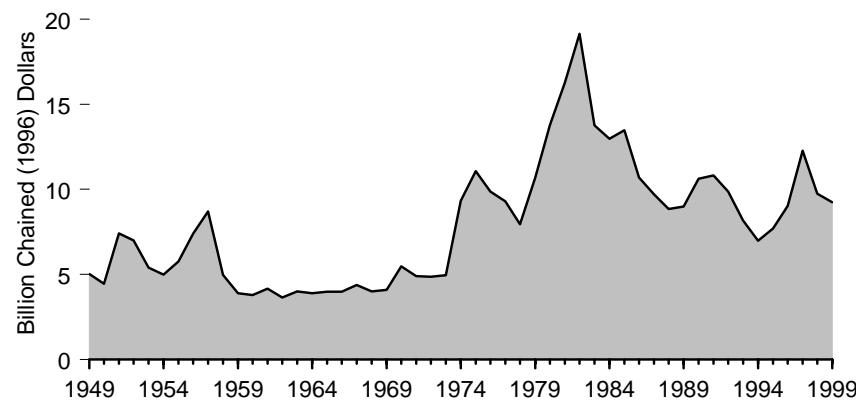
R=Revised. P=Preliminary. (s)=Less than .005 billion.

Notes: • Includes value of imports into Puerto Rico from foreign countries; excludes receipts into the 50 States and the District of Columbia from the Virgin Islands and Puerto Rico. • Totals may not equal sum of components due to independent rounding.

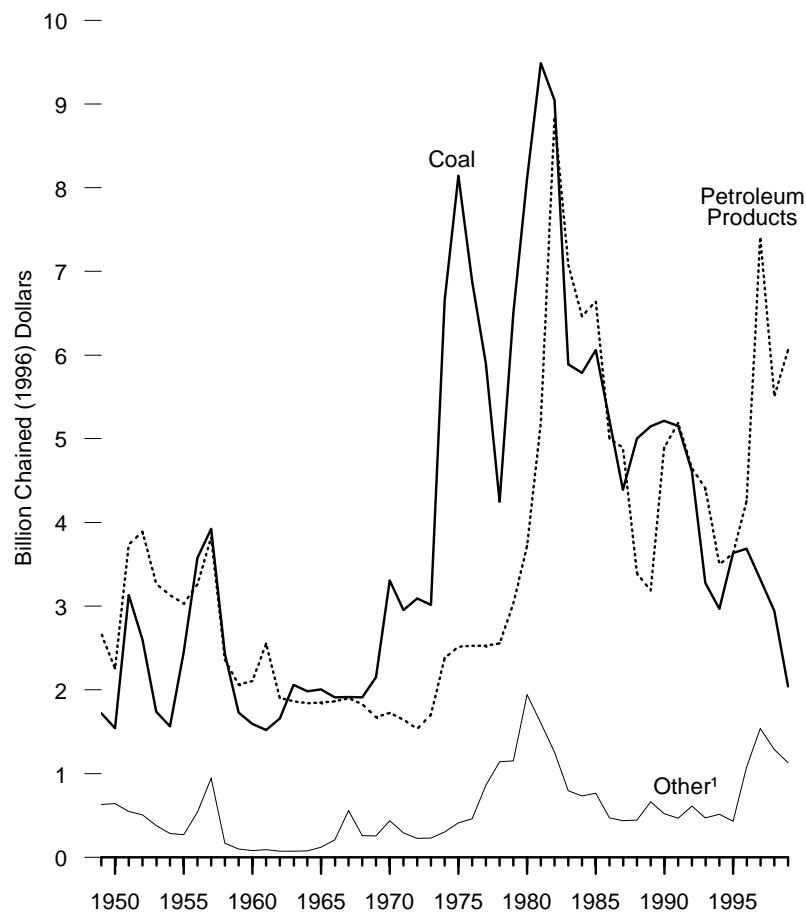
Sources: See end of section.

Figure 3.6 Value of Fossil Fuel Exports

Total, 1949-1999



By Fuel, 1949-1999



¹ Natural gas, crude oil, and coal coke.

Notes: • Prices are in chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1. • Because vertical scales differ, graphs should not be compared.

Source: Table 3.6.

Table 3.6 Value of Fossil Fuel Exports, 1949-1999
(Billion Dollars)

Year	Coal		Coal Coke		Natural Gas		Crude Oil		Petroleum Products ¹		Total	
	Nominal	Real ²	Nominal	Real ²	Nominal	Real ²	Nominal	Real ²	Nominal	Real ²	Nominal	Real ²
1949	0.30	R1.72	0.01	0.05	(s)	0.01	0.10	R0.57	0.46	R2.67	0.87	R5.02
1950	0.27	R1.54	0.01	R0.04	(s)	0.02	0.10	R0.59	0.39	R2.26	0.78	R4.45
1951	0.59	R3.13	0.02	0.09	(s)	0.02	0.08	R0.44	0.70	R3.74	1.39	R7.42
1952	0.49	R2.60	0.01	0.07	(s)	0.02	0.08	R0.41	0.74	R3.89	1.33	R7.00
1953	0.34	R1.74	0.01	0.05	(s)	0.02	0.06	R0.31	0.63	R3.27	1.04	R5.39
1954	0.30	R1.57	0.01	0.03	(s)	0.02	0.05	R0.23	0.61	R3.13	0.97	R4.98
1955	0.48	R2.45	0.01	0.04	0.01	0.03	0.04	R0.20	0.60	R3.03	1.14	R5.75
1956	0.73	R3.58	0.01	R0.06	0.01	0.04	0.09	R0.44	0.67	R3.26	1.51	R7.38
1957	0.83	R3.92	0.01	R0.07	0.01	0.06	0.17	R0.82	0.81	R3.82	1.84	R8.69
1958	0.53	R2.43	0.01	0.03	0.01	R0.07	0.01	R0.07	0.51	R2.36	1.07	R4.96
1959	0.38	R1.73	0.01	0.04	0.01	0.03	0.01	0.03	0.45	R2.06	0.85	R3.89
1960	0.35	R1.59	0.01	0.03	(s)	0.02	0.01	R0.04	0.47	R2.10	0.84	R3.78
1961	0.34	R1.52	0.01	R0.04	(s)	0.02	0.01	0.04	0.57	R2.55	0.93	R4.16
1962	0.38	R1.66	0.01	0.03	(s)	0.02	0.01	0.02	0.43	R1.90	0.83	R3.63
1963	0.47	R2.06	0.01	R0.04	(s)	0.02	(s)	0.02	0.43	R1.86	0.92	R4.00
1964	0.46	R1.98	0.01	0.04	(s)	0.02	(s)	0.02	0.43	R1.84	0.91	R3.90
1965	0.48	R2.01	0.02	0.07	0.01	0.03	(s)	0.02	0.44	R1.85	0.95	R3.97
1966	0.47	R1.91	0.02	R0.10	0.02	0.07	0.01	0.04	0.46	R1.86	0.97	R3.99
1967	0.48	R1.91	0.02	R0.07	0.03	R0.13	0.09	R0.37	0.48	R1.90	1.10	R4.37
1968	0.50	R1.91	0.02	0.07	0.04	R0.15	0.01	0.04	0.48	R1.83	1.05	R4.00
1969	0.59	R2.15	0.04	R0.14	0.03	0.09	0.01	0.02	0.46	R1.68	1.13	R4.08
1970	0.96	R3.31	0.08	R0.27	0.03	0.10	0.02	0.06	0.50	R1.73	1.59	R5.47
1971	0.90	R2.95	0.04	R0.15	0.04	R0.13	0.01	0.02	0.50	R1.65	1.49	R4.89
1972	0.98	R3.09	0.03	R0.10	0.04	0.12	(s)	0.01	0.49	R1.54	1.55	R4.86
1973	1.01	R3.02	0.03	R0.10	0.04	0.12	(s)	0.01	0.57	R1.70	1.66	R4.95
1974	2.44	R6.65	0.04	R0.12	0.05	R0.15	0.01	0.04	0.87	R2.38	3.42	R9.34
1975	3.26	R8.14	0.07	R0.19	0.09	R0.23	(s)	(s)	1.01	R2.52	4.43	R11.07
1976	2.91	R6.88	0.07	R0.16	0.10	R0.24	0.03	0.06	1.07	R2.53	4.17	R9.87
1977	2.66	R5.90	0.07	R0.16	0.11	R0.24	0.21	R0.46	1.14	R2.53	4.18	R9.29
1978	2.05	R4.25	0.05	0.10	0.11	R0.23	0.39	R0.81	1.23	R2.56	3.83	R7.95
1979	3.40	R6.50	0.08	0.15	0.13	R0.24	0.39	R0.75	1.58	R3.03	5.58	R10.69
1980	4.63	R8.11	0.13	R0.23	0.23	R0.40	0.75	R1.32	2.12	R3.72	7.86	R13.78
1981	5.92	R9.49	0.07	R0.12	0.35	R0.56	0.58	R0.92	3.24	R5.19	10.16	R16.28
1982	5.99	R9.04	0.06	0.09	0.30	R0.45	0.47	R0.71	5.86	R8.85	12.68	R19.14
1983	4.06	R5.89	0.05	R0.07	0.28	R0.40	0.22	R0.33	4.88	R7.08	9.48	R13.77
1984	4.13	R5.78	0.07	R0.10	0.27	R0.38	0.19	R0.26	4.62	R6.46	9.27	R12.98
1985	4.47	R6.06	0.08	0.10	0.26	R0.36	0.23	R0.31	4.90	R6.64	9.93	R13.47
1986	3.93	R5.22	0.07	R0.09	0.17	R0.23	0.12	R0.16	3.77	R5.00	8.05	R10.69
1987	3.40	R4.39	0.05	0.06	0.17	R0.21	0.13	R0.16	3.80	R4.89	7.54	R9.72
1988	4.01	R5.00	0.08	R0.10	0.20	R0.25	0.08	R0.10	2.72	R3.40	7.09	R8.84
1989	4.29	R5.15	0.08	R0.10	0.27	R0.32	0.21	R0.25	2.65	R3.19	7.49	R9.00
1990	4.51	R5.21	0.05	R0.06	0.27	R0.31	0.14	R0.16	4.23	R4.89	9.20	R10.63
1991	4.62	R5.15	0.05	R0.06	0.33	R0.37	0.03	R0.04	4.65	R5.19	9.69	R10.81
1992	4.24	R4.61	0.04	R0.05	0.49	R0.53	0.03	R0.04	4.27	R4.65	9.07	R9.88
1993	3.09	R3.28	0.06	0.06	0.36	R0.39	0.02	0.02	4.15	R4.41	7.68	R8.16
1994	2.85	R2.97	0.04	0.04	0.40	R0.42	0.05	0.05	3.36	R3.50	6.71	R6.98
1995	3.57	R3.63	0.05	0.05	0.37	R0.38	0.01	0.01	3.56	R3.63	7.55	R7.70
1996	3.69	R3.69	0.06	0.06	0.46	R0.46	0.56	R0.56	4.25	R4.25	9.02	R9.02
1997	3.39	R3.32	0.05	0.05	0.47	R0.47	1.04	R1.02	37.55	R37.41	12.51	R12.27
1998	R3.04	R2.94	0.04	0.04	R0.39	0.38	R0.90	R0.87	R5.68	R5.51	R10.04	R9.74
1999 ^P	2.13	2.04	0.03	0.03	0.38	0.36	0.77	0.74	6.34	6.06	9.66	9.23

¹ Includes petroleum preparations, liquefied propane and butane and since 1997 other mineral fuels.

² In chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

³ There is a discontinuity in this time series between 1996 and 1997 due to the addition of the commodity category "other mineral fuels."

R=Revised. P=Preliminary. (s)=Less than .005 billion.

Notes: • Includes value of exports from Puerto Rico to foreign countries; excludes shipments from the 50 States and the District of Columbia to the Virgin Islands and Puerto Rico. • Totals may not equal sum of components due to independent rounding.

Sources: **Natural Gas:** • 1949-1971—Bureau of the Census, *U.S. Exports*, FT410. • 1972 and

1973—Federal Power Commission, *Pipeline Imports and Exports of Natural Gas - Imports and Exports of LNG*. • 1974-1977—Federal Power Commission, *United States Imports and Exports of Natural Gas*, annual reports. • 1978-1981—Energy Information Administration (EIA), *U.S. Imports and Exports of Natural Gas*, annual reports. • 1982-1992—EIA, *Natural Gas Monthly*, monthly reports.

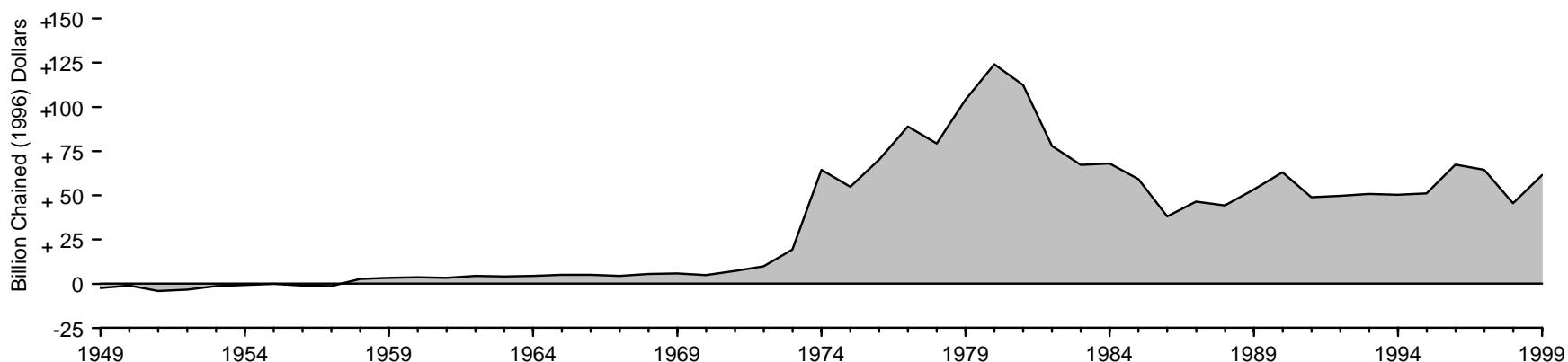
• 1993-1998—EIA, *Natural Gas Monthly* (August 1999). • 1999—EIA estimates. **Crude oil and Petroleum Products:** • 1949-1988—Bureau of the Census, *U.S. Exports*, FT410.

• 1989 forward—Bureau of the Census, Foreign Trade Division *U.S. Merchandise Trade*, FT900. "Exports and Imports of Goods by Principal SITC Commodity Groupings", December issues. **Coal:**

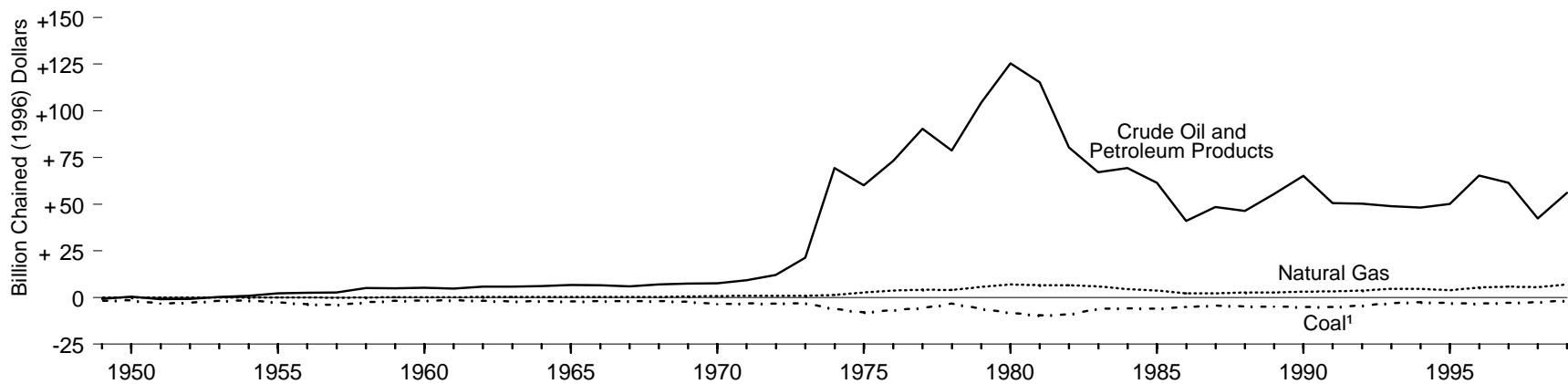
• 1949 forward—Bureau of the Census, Foreign Trade Division, unpublished data.

Figure 3.7 Value of Fossil Fuel Net Imports, 1949-1999

Value of Fossil Fuel Net Imports



Value of Fossil Fuel Net Imports by Fuel



¹ Includes small amounts of coal coke.

Source: Table 3.7.

Notes: • Negative net imports are net exports. • Prices are in chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

Table 3.7 Value of Fossil Fuel Net Imports, 1949-1999
(Billion Dollars)

Year	Coal		Coal Coke		Natural Gas		Crude Oil		Petroleum Products ¹		Total	
	Nominal	Real ²	Nominal	Real ²	Nominal	Real ²	Nominal	Real ²	Nominal	Real ²	Nominal	Real ²
1949	-0.29	R-1.71	(s)	R-0.03	(s)	-0.01	0.21	R1.19	-0.32	R-1.88	-0.42	R-2.43
1950	-0.27	R-1.53	(s)	(s)	(s)	-0.02	0.27	R1.53	-0.18	R-1.03	-0.18	R-1.05
1951	-0.58	R-3.12	-0.02	-0.08	(s)	-0.02	0.29	R1.57	-0.47	R-2.53	-0.78	R-4.18
1952	-0.49	R-2.59	-0.01	-0.05	(s)	-0.02	0.34	R1.82	-0.49	R-2.56	-0.65	R-3.40
1953	-0.33	R-1.73	-0.01	-0.04	(s)	-0.02	0.45	R2.34	-0.38	R-1.96	-0.27	R-1.41
1954	-0.30	R-1.56	(s)	R-0.03	(s)	-0.02	0.50	R2.57	-0.32	R-1.67	-0.14	R-0.70
1955	-0.48	R-2.44	-0.01	-0.03	-0.01	-0.03	0.62	R3.11	-0.16	R-0.80	-0.04	R-0.18
1956	-0.73	R-3.57	-0.01	-0.05	-0.01	-0.04	0.75	R3.65	-0.22	R-1.07	-0.22	R-1.07
1957	-0.83	R-3.91	-0.01	-0.06	-0.01	-0.04	0.81	R3.82	-0.24	R-1.14	-0.28	R-1.33
1958	-0.52	R-2.42	-0.01	R-0.03	0.01	0.03	0.92	R4.27	0.17	R0.80	0.58	R2.67
1959	-0.38	R-1.72	-0.01	-0.03	0.02	0.09	0.87	R3.96	0.21	R0.97	0.71	R3.26
1960	-0.35	R-1.59	-0.01	-0.02	0.02	0.11	0.89	R4.00	0.26	R1.19	0.82	R3.69
1961	-0.34	R-1.52	-0.01	-0.03	0.04	R0.18	0.92	R4.12	0.14	R0.61	0.76	R3.37
1962	-0.38	R-1.65	-0.01	-0.02	0.08	R0.36	1.01	R4.43	0.32	R1.41	1.03	R4.52
1963	-0.47	R-2.05	-0.01	-0.03	0.09	R0.41	1.02	R4.44	0.31	R1.35	0.95	R4.11
1964	-0.46	R-1.98	-0.01	-0.04	0.10	R0.41	1.08	R4.61	0.35	R1.51	1.06	R4.52
1965	-0.48	R-2.00	-0.01	-0.06	0.10	R0.41	1.11	R4.69	0.48	R2.03	1.21	R5.07
1966	-0.47	R-1.91	-0.02	R-0.09	0.09	R0.36	1.11	R4.52	0.53	R2.17	1.24	R5.06
1967	-0.48	R-1.91	-0.01	-0.06	0.10	R0.39	0.97	R3.86	0.54	R2.13	1.11	R4.41
1968	-0.50	R-1.90	-0.02	-0.06	0.11	R0.41	1.17	R4.46	0.68	R2.60	1.45	R5.50
1969	-0.59	R-2.15	-0.04	R-0.13	0.17	R0.61	1.29	R4.68	0.78	R2.82	1.61	R5.84
1970	-0.96	R-3.31	-0.08	R-0.26	0.23	R0.78	1.24	R4.27	0.98	R3.38	1.41	R4.87
1971	-0.90	R-2.95	-0.04	R-0.13	0.27	R0.90	1.68	R5.51	1.15	R3.78	2.17	R7.11
1972	-0.98	R-3.09	-0.03	-0.08	0.28	R0.87	2.37	R7.44	1.50	R4.71	3.13	R9.85
1973	-1.01	R-3.01	0.01	0.02	0.32	R0.95	4.24	R12.61	2.93	R8.71	6.48	R19.28
1974	-2.38	R-6.50	0.15	R0.41	0.48	R1.30	15.24	R41.61	10.14	R27.69	23.63	R64.52
1975	-3.24	R-8.09	0.08	R0.20	1.06	R2.65	18.29	R45.69	5.76	R14.39	21.96	R54.85
1976	-2.89	R-6.84	0.04	0.10	1.56	R3.69	25.43	R60.12	5.58	R13.20	29.72	R70.26
1977	-2.62	R-5.81	0.06	R0.13	1.89	R4.21	33.38	R74.15	7.28	R16.17	40.00	R88.84
1978	-1.98	R-4.10	0.36	R0.75	1.95	R4.04	31.91	R66.16	6.07	R12.59	38.31	R79.44
1979	-3.35	R-6.40	0.26	R0.50	3.00	R5.74	45.66	R87.40	8.87	R16.97	54.44	R104.20
1980	-4.60	R-8.06	-0.08	R-0.14	3.98	R6.99	61.15	R107.20	10.42	R18.27	70.88	R124.26
1981	-5.89	R-9.44	-0.03	-0.05	4.06	R6.51	60.88	R97.61	11.06	R17.73	70.09	R112.37
1982	-5.97	R-9.01	-0.05	R-0.08	4.39	R6.63	45.25	R68.31	8.00	R12.08	51.63	R77.93
1983	-4.01	R-5.83	-0.04	-0.06	4.11	R5.97	36.27	R52.65	9.96	R14.47	46.28	R67.20
1984	-4.09	R-5.72	-0.02	-0.03	3.17	R4.44	36.26	R50.75	13.25	R18.55	48.57	R67.98
1985	-4.39	R-5.96	-0.03	R-0.05	2.79	R3.78	32.68	R44.34	12.57	R17.06	43.60	R59.17
1986	-3.85	R-5.11	-0.04	-0.05	1.65	R2.19	22.49	R29.86	8.42	R11.17	28.67	R38.06
1987	-3.35	R-4.32	0.01	0.01	1.76	R2.27	29.00	R37.39	8.57	R11.05	36.00	R46.40
1988	-3.95	R-4.92	0.12	R0.15	2.18	R2.72	27.47	R34.25	9.71	R12.11	35.53	R44.29
1989	-4.19	R-5.03	0.14	R0.16	2.24	R2.69	35.32	R42.42	10.85	R13.02	44.35	R53.27
1990	-4.42	R-5.11	0.02	R0.03	2.71	R3.13	43.65	R50.45	12.67	R14.65	54.63	R63.15
1991	-4.51	R-5.03	0.04	R0.05	2.90	R3.23	36.87	R41.12	8.52	R9.50	43.82	R48.88
1992	-4.11	R-4.48	0.10	R0.11	3.47	R3.78	38.52	R41.94	7.72	R8.40	45.70	R49.76
1993	R-2.83	R-3.01	R0.11	R0.11	4.41	R4.69	38.45	R40.88	7.59	R8.07	R47.72	R50.74
1994	R-2.58	R-2.68	R0.23	R0.24	4.50	R4.68	38.43	R40.03	7.78	R8.10	R48.37	R50.38
1995	R-3.24	R-3.31	R0.27	R0.28	3.86	R3.93	42.81	R43.64	6.39	R6.51	R50.09	R51.06
1996	R-3.41	R-3.41	R0.18	R0.18	5.33	R5.33	54.37	R54.37	11.01	R11.01	R67.49	R67.49
1997	-3.13	R-3.07	R0.20	R0.19	6.02	R5.91	53.19	R52.19	39.37	R39.20	R65.65	R64.42
1998	R-2.75	R-2.67	R0.25	R0.24	R5.82	R5.64	R36.36	R35.26	R7.33	R7.11	R47.00	R45.58
1999 ^P	-1.85	-1.77	0.20	0.19	7.32	7.00	49.89	47.69	8.80	8.41	64.35	61.51

¹ Includes petroleum preparations, liquefied propane and butane and since 1997 other mineral fuels.

² In chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

³ There is a discontinuity in this time series between 1996 and 1997 due to the addition of the commodity category "other mineral fuels."

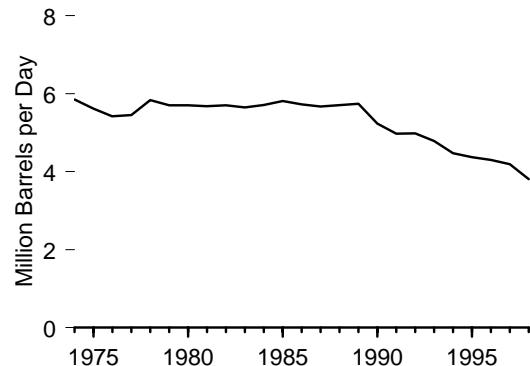
R=Revised. P=Preliminary. (s)=Less than .005 billion.

Notes: • Net imports = imports minus exports. • Totals may not equal sum of components due to independent rounding. Data on this table may not equal data on Table 3.5 minus data on Table 3.6 due to independent rounding.

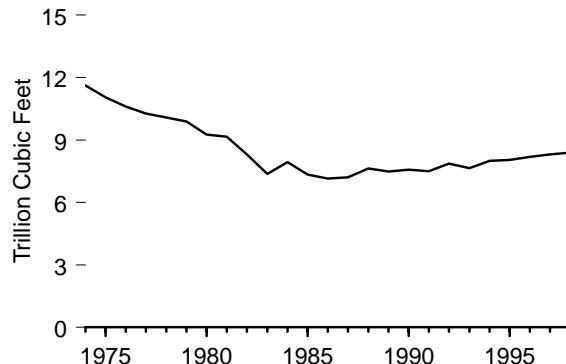
Sources: Tables 3.5 and 3.6.

Figure 3.8 Major U.S. Energy Companies' Domestic Production and Refining, 1974-1998

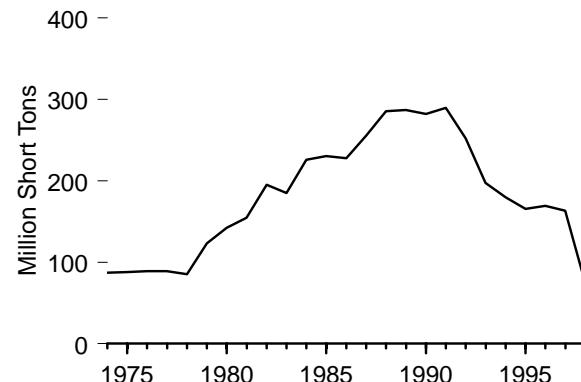
Crude Oil and Natural Gas Liquids Production by Major Energy Companies



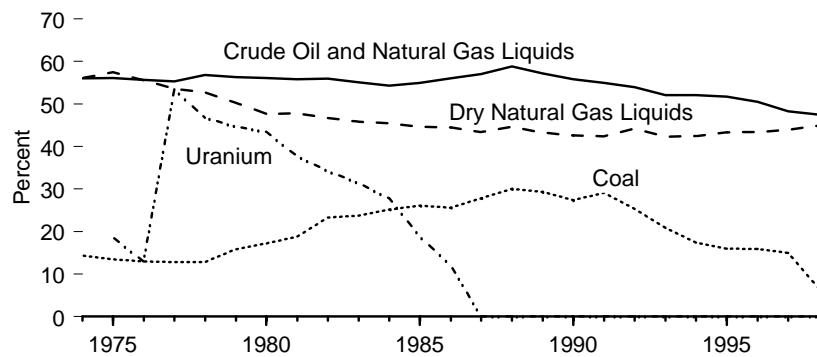
Dry Natural Gas Production by Major Energy Companies



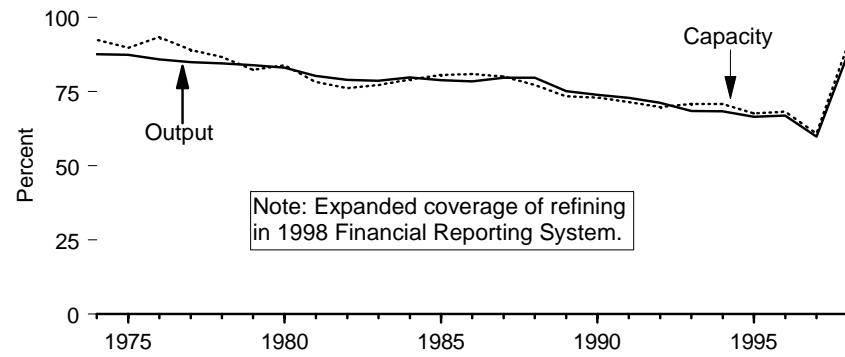
Coal Production by Major Energy Companies



Major Energy Companies' Shares of U.S. Total Production



Major Energy Companies' Shares of U.S. Refining Capacity and Output



Notes: • Major U.S. Energy Companies are the top publicly-owned crude oil and natural gas producers and petroleum refiners that form the Financial Reporting System (FRS). See Table 3.12. • Because vertical scales differ, graphs should not be compared.

Source: Table 3.8.

Table 3.8 Major U.S. Energy Companies' Domestic Production and Refining, 1974-1998

Year	Production				Refining	
	Crude Oil and Natural Gas Liquids (million barrels per day)	Dry Natural Gas (trillion cubic feet)	Coal ¹ (million short tons)	Uranium (million pounds U ₃ O ₈)	Capacity ^{2,3} (million barrels per day)	Output ³ (million barrels per day)
1974	5.9	11.6	87.4	NA	13.3	11.8
1975	5.6	11.0	88.1	4.3	13.4	12.0
1976	5.4	10.6	89.0	3.3	14.2	12.6
1977	5.5	10.3	89.1	16.0	14.6	13.5
1978	5.8	10.1	85.5	17.3	14.8	13.5
1979	5.7	9.9	123.3	16.7	14.4	13.2
1980	5.7	9.3	142.3	19.0	15.1	12.2
1981	5.7	9.2	154.8	14.5	14.6	11.2
1982	5.7	8.3	195.2	9.2	13.6	10.6
1983	5.6	7.4	185.2	6.6	13.0	10.3
1984	5.7	7.9	226.0	4.1	12.8	10.9
1985	5.8	7.3	230.4	2.1	12.6	10.8
1986	5.7	7.1	227.6	1.6	12.5	11.4
1987	5.7	7.2	255.3	0.0	12.5	11.7
1988	5.7	7.6	285.3	0.0	12.3	12.0
1989	5.2	7.5	286.9	0.0	11.5	11.4
1990	5.0	7.6	282.0	0.0	11.4	11.3
1991	5.0	7.5	289.6	0.0	11.2	11.1
1992	4.8	7.9	251.9	0.0	11.0	11.0
1993	4.5	7.7	197.3	0.0	10.7	10.8
1994	4.4	8.0	179.7	0.0	10.6	10.8
1995	4.3	8.1	165.4	0.0	10.4	10.6
1996	4.2	8.2	169.4	0.0	10.5	10.9
1997	4.0	8.3	163.3	0.0	9.4	10.0
1998	3.8	8.4	73.9	0.0	⁴ 14.3	⁴ 14.9
Percent of U.S. Total						
1974	56.0	56.1	14.3	NA	92.5	87.6
1975	56.1	57.4	13.5	18.6	89.8	87.4
1976	55.7	55.6	13.0	13.0	93.4	85.9
1977	55.3	53.6	12.8	53.4	89.0	85.0
1978	56.8	52.7	12.8	46.8	86.7	84.5
1979	56.3	50.3	15.8	44.7	82.4	83.9
1980	56.1	47.7	17.2	43.5	83.9	83.1
1981	55.8	47.8	18.8	37.7	78.2	80.3
1982	55.9	46.7	23.3	34.2	76.2	79.0
1983	55.1	45.8	23.7	31.4	77.2	78.7
1984	54.3	45.5	25.2	27.8	79.1	79.8
1985	54.9	44.6	26.1	18.9	80.6	78.9
1986	56.0	44.5	25.6	12.1	81.0	78.5
1987	57.0	43.4	27.8	0.0	80.1	79.7
1988	58.8	44.6	30.0	0.0	77.2	79.7
1989	57.2	43.2	29.3	0.0	73.4	75.2
1990	55.8	42.6	27.4	0.0	73.0	74.0
1991	54.9	42.4	29.1	0.0	71.5	72.9
1992	53.9	44.2	25.3	0.0	69.8	71.2
1993	52.1	42.3	20.9	0.0	70.9	68.5
1994	52.1	42.5	17.4	0.0	70.8	68.4
1995	51.7	43.3	16.0	0.0	67.6	66.6
1996	50.5	R43.4	15.9	0.0	68.3	66.9
1997	48.3	43.9	15.0	0.0	60.9	59.8
1998	47.5	44.9	6.6	0.0	⁴ 90.9	⁴ 87.7

¹ Bituminous coal, subbituminous coal, and lignite.

² Operable capacity as of January 1 of the following year.

³ Includes Puerto Rico and the Virgin Islands.

⁴ There is a discontinuity in this time series between 1997 and 1998 due to the expanded coverage of the Financial Reporting System (FRS).

R=Revised. NA=Not available.

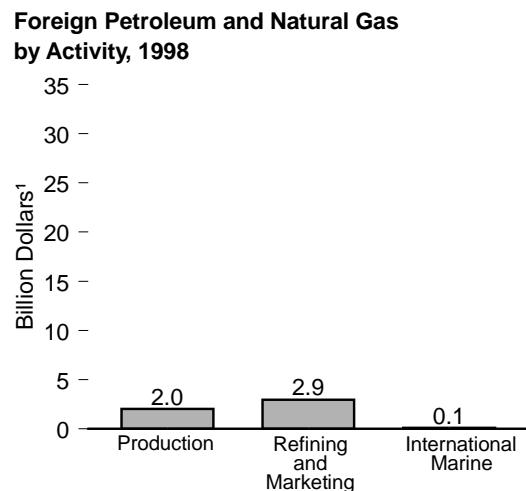
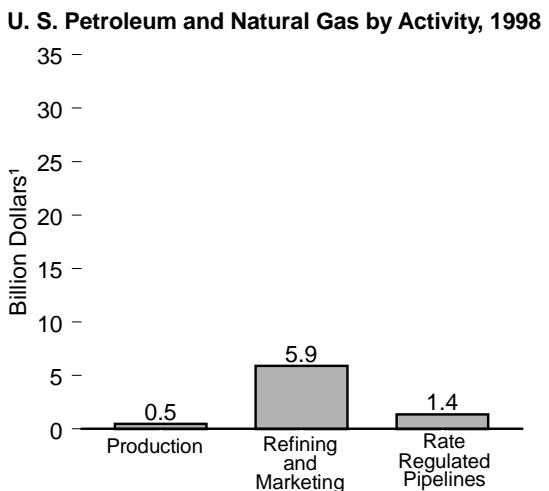
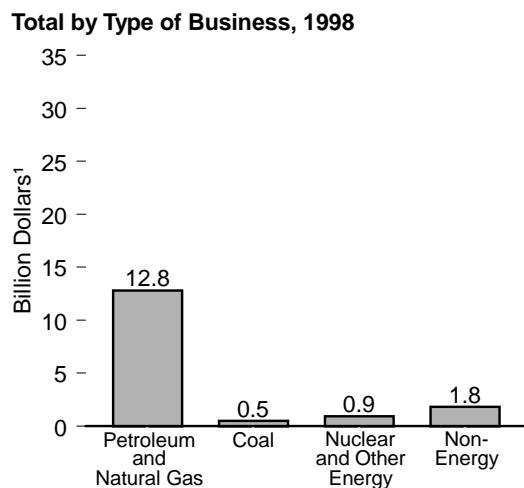
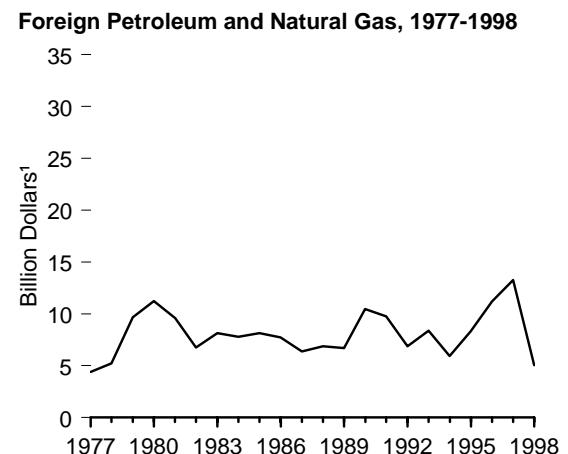
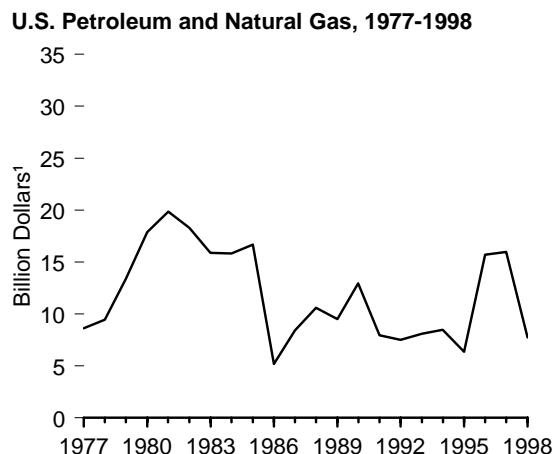
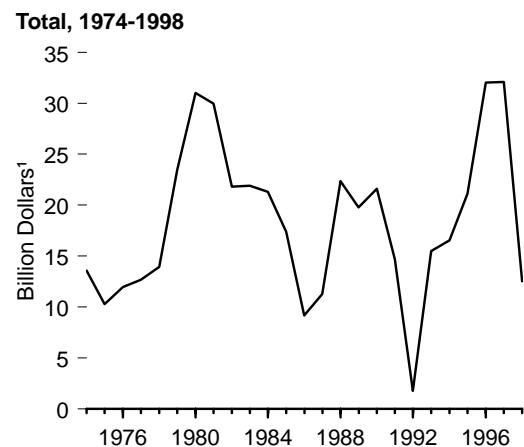
Notes: • Major U.S. Energy Companies are the top publicly-owned, U.S.-based crude oil and natural gas producers and petroleum refiners that form the FRS. See Table 3.12. • FRS Crude Oil and Natural

Gas Liquids and Dry Natural Gas production are on a net ownership interest basis (see Glossary).

Web Page: <http://www.eia.doe.gov/emeu/finance>.

Sources: **Production and Refining:** • 1974-1976—Energy Information Administration (EIA), Form EIA-28, "Financial Reporting System" database, November 1998. • 1977-1991—EIA, *Performance Profiles of Major Energy Producers*, annual reports. • 1992-1998—EIA, *Performance Profiles of Major Energy Producers*, 1998 (January 2000), Table B1. **Percent of U.S. Total:** Tables 5.1, 5.8, 5.9, 6.1, 7.1, and 9.3.

Figure 3.9 Major U.S. Energy Companies' Net Income



¹ Nominal dollars.

Note: Major U.S. Energy Companies are the top publicly-owned crude oil and natural gas producers and petroleum refiners that form the Financial Reporting System (FRS). See Table 3.12.
Source: Table 3.9.

Table 3.9 Major U.S. Energy Companies' Net Income, 1974-1998
(Billion Dollars¹)

Year	U.S. Petroleum and Natural Gas				Foreign Petroleum and Natural Gas				Type of Business				
	Production	Refining and Marketing	Rate Regulated Pipelines	Total ²	Production	Refining and Marketing	International Marine	Total ²	Petroleum and Natural Gas	Coal	Nuclear and Other Energy	Non-energy	Total ²
1974	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.6
1975	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.3
1976	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.0
1977	6.4	1.5	0.8	8.6	3.6	0.7	0.1	4.4	13.0	0.2	(s)	1.7	12.7
1978	6.7	1.6	1.2	9.5	3.5	1.8	-0.1	5.2	14.7	0.1	-0.1	1.8	13.9
1979	9.4	2.3	1.7	13.4	5.2	4.3	0.1	9.7	23.0	0.3	-0.1	2.8	23.5
1980	13.8	2.5	1.7	17.9	6.9	4.3	0.1	11.2	29.1	0.3	(s)	2.3	31.0
1981	16.8	1.3	1.8	19.9	8.0	1.6	-0.1	9.6	29.5	0.4	-0.3	1.6	30.0
1982	14.1	1.9	2.3	18.3	6.1	0.8	-0.3	6.7	25.0	0.4	-0.3	0.4	21.8
1983	12.2	1.6	2.0	15.9	7.2	1.3	-0.5	8.2	24.0	0.5	(s)	1.8	21.9
1984	13.3	0.1	2.5	15.8	7.5	0.7	-0.4	7.8	23.6	0.6	-0.1	2.9	21.3
1985	12.1	2.3	2.3	16.7	8.0	0.5	-0.4	8.1	24.8	0.4	-0.3	2.5	17.4
1986	0.9	1.6	2.6	5.2	4.7	2.9	0.1	7.7	12.9	0.2	(s)	2.8	9.2
1987	4.7	1.1	2.6	8.4	5.4	1.0	-0.1	6.4	14.8	0.4	(s)	7.1	11.3
1988	3.2	5.4	2.0	10.6	4.3	2.4	0.1	6.9	17.5	0.6	-0.1	10.8	22.3
1989	3.1	4.5	1.9	9.5	4.7	1.8	0.2	6.7	16.2	0.4	-0.1	8.7	19.8
1990	8.7	2.2	2.1	12.9	7.4	2.8	0.2	10.5	23.4	0.3	0.1	4.3	21.6
1991	5.1	0.9	2.0	7.9	5.4	4.1	0.3	9.8	17.7	0.6	0.1	1.6	14.7
1992	5.6	-0.2	2.1	7.5	4.7	2.2	(s)	6.9	14.4	-0.5	0.1	1.2	1.8
1993	4.8	1.7	1.6	8.1	5.2	3.2	(s)	8.4	16.5	0.4	0.1	2.7	15.5
1994	4.8	1.8	1.8	8.5	4.0	2.0	(s)	5.9	14.4	0.2	0.2	6.2	16.5
1995	3.7	0.5	2.2	6.4	5.9	2.4	(s)	8.3	14.7	0.3	0.2	12.6	21.1
1996	11.8	2.3	1.6	15.7	9.2	2.0	(s)	11.2	26.9	0.5	0.2	8.0	32.0
1997	R11.6	R3.1	1.3	R16.0	R9.6	3.6	0.1	R13.3	R29.3	0.3	0.3	R6.3	32.1
1998	0.5	5.9	1.4	7.7	2.0	2.9	0.1	5.1	12.8	0.5	0.9	1.8	12.5

¹ Nominal dollars.

² Total is sum of components shown, plus eliminations and nontraceables, which are defined in the glossary.

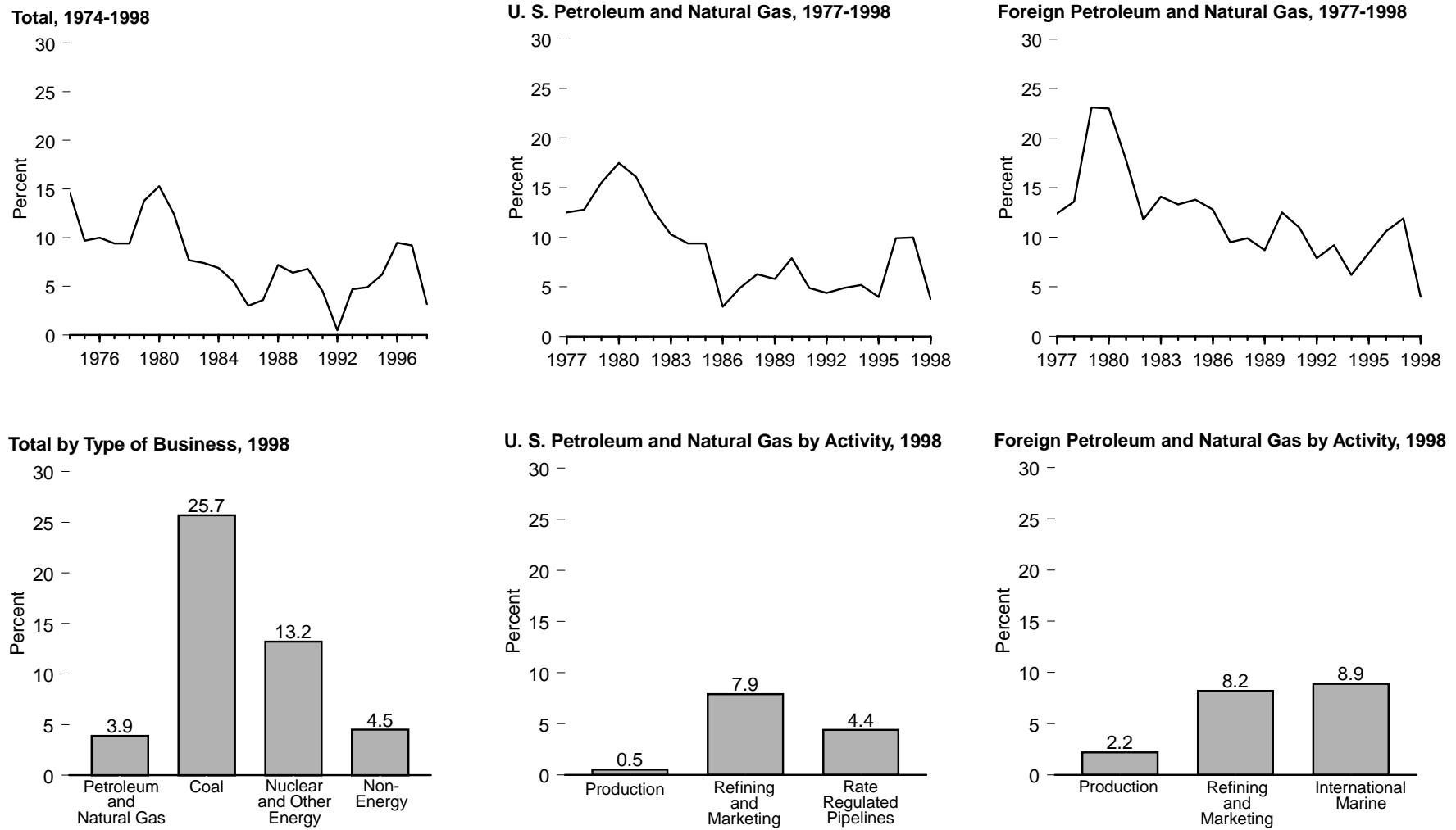
R=Revised. NA=Not available. (s)=Less than \$0.05 billion and greater than -\$0.05 billion.

Note: Major U.S. Energy Companies are the top publicly-owned, U.S.-based crude oil and natural gas producers and petroleum refiners that form the Financial Reporting System (FRS). See Table 3.12.

Web Page: <http://www.eia.doe.gov/finance>.

Sources: • 1974-1976—Energy Information Administration (EIA), Form EIA-28, "Financial Reporting System" database, November 1997. • 1977-1997—EIA, *Performance Profiles of Major Energy Producers*, annual reports. • 1998—EIA, *Performance Profiles of Major Energy Producers*, 1998 (January 2000), Table 3.

Figure 3.10 Major U.S. Energy Companies' Return on Investment



Note: Major U.S. Energy Companies are the top publicly-owned crude oil and natural gas producers and petroleum refiners that form the Financial Reporting System (FRS). See Table 3.12.

Source: Table 3.10.

Table 3.10 Major U.S. Energy Companies' Return on Investment, 1974-1998
(Percent)

Year	U.S. Petroleum and Natural Gas				Foreign Petroleum and Natural Gas				Type of Business				
	Production	Refining and Marketing	Rate Regulated Pipelines	Total	Production	Refining and Marketing	International Marine	Total	Petroleum and Natural Gas	Coal	Nuclear and Other Energy	Non-energy	Total
1974	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.6
1975	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7
1976	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.0
1977	17.5	7.2	7.3	12.5	21.8	5.1	2.6	12.4	12.5	8.8	-2.6	7.1	9.4
1978	16.4	7.5	10.9	12.8	18.2	12.7	-1.0	13.6	13.1	4.1	-4.2	6.5	9.4
1979	18.2	9.8	15.1	15.5	23.8	29.1	2.6	23.1	18.0	6.3	-3.7	8.8	13.8
1980	20.9	9.8	15.1	17.5	25.1	26.4	2.4	23.0	19.2	5.6	-0.7	5.9	15.3
1981	20.2	4.4	15.6	16.1	25.5	9.0	-1.1	17.7	16.6	6.1	-6.8	3.5	12.4
1982	14.0	6.0	20.8	12.7	17.4	4.7	-6.3	11.8	12.5	4.4	-5.2	0.6	7.7
1983	11.3	4.8	16.6	10.3	19.6	7.7	-13.2	14.1	11.3	5.0	0.5	2.9	7.4
1984	10.8	0.3	20.8	9.4	18.8	4.5	-14.0	13.3	10.4	6.2	-1.8	4.8	6.9
1985	9.5	6.5	15.0	9.4	20.0	3.3	-19.0	13.8	10.5	4.6	-8.4	4.2	5.5
1986	0.8	4.5	13.2	3.0	11.6	16.3	5.3	12.8	5.5	2.7	-0.8	5.1	3.0
1987	4.1	2.9	12.8	4.9	12.4	4.7	-3.6	9.5	6.2	5.1	0.5	12.2	3.6
1988	2.8	14.7	9.6	6.3	9.2	11.6	6.8	9.9	7.3	6.7	-2.5	20.3	7.2
1989	2.9	11.5	10.2	5.8	8.9	8.0	12.4	8.7	6.7	5.0	-2.3	17.3	6.4
1990	8.5	5.1	11.2	7.9	13.1	11.2	11.7	12.5	9.5	3.3	2.6	7.8	6.8
1991	5.1	2.0	10.7	4.9	9.1	14.6	15.6	11.0	7.0	8.7	2.8	2.9	4.5
1992	5.9	-0.4	8.4	4.4	8.2	7.8	-1.2	7.9	5.6	-9.3	1.8	2.1	0.5
1993	5.3	3.4	6.4	4.9	8.6	10.6	1.2	9.2	6.4	7.6	4.1	4.7	4.7
1994	5.5	3.6	7.6	5.2	6.5	6.1	-2.0	6.2	5.6	4.0	4.8	10.5	4.9
1995	4.4	1.0	9.1	4.0	9.3	7.2	-2.5	8.4	5.7	6.9	6.1	19.4	6.2
1996	14.1	4.4	6.9	9.9	12.8	6.0	2.2	10.6	10.1	9.9	7.9	15.0	9.5
1997	R12.5	R6.6	R6.7	R10.0	R12.5	10.5	11.8	R11.9	10.8	7.2	7.0	R10.9	9.2
1998	0.5	7.9	4.4	3.8	2.2	8.2	8.9	4.0	3.9	25.7	13.2	4.5	3.2

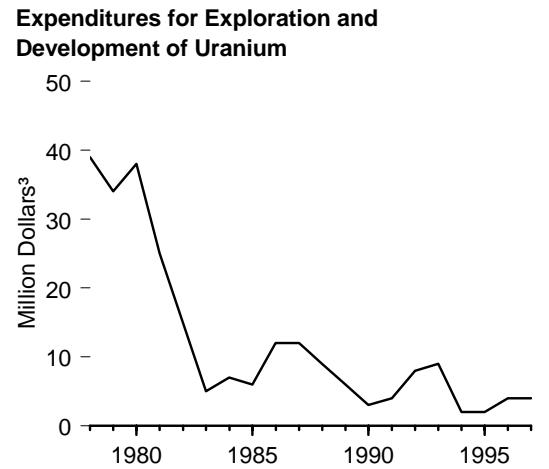
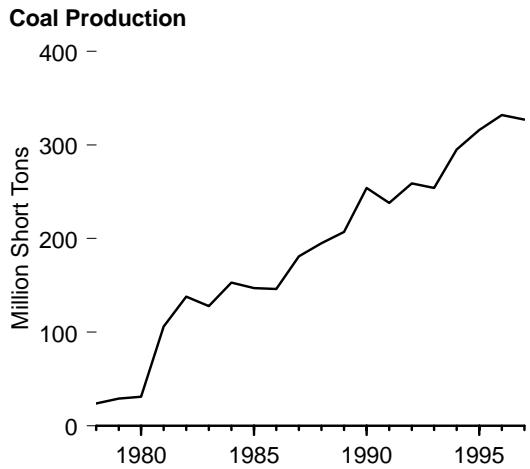
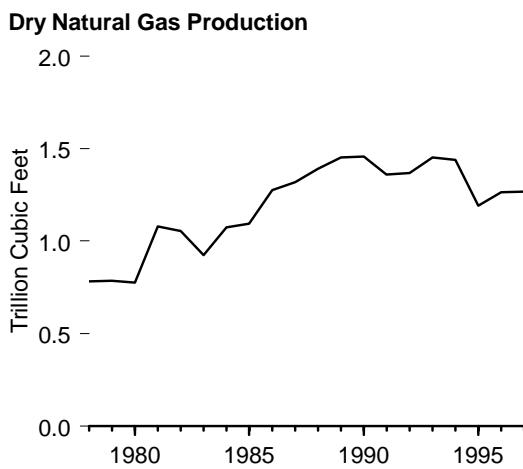
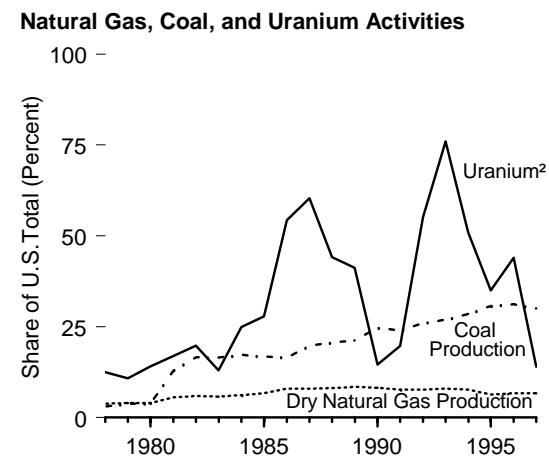
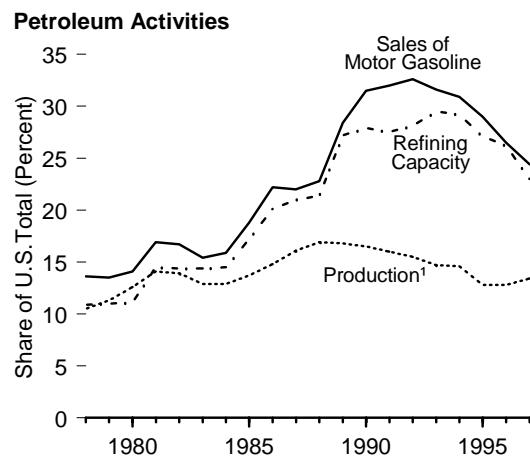
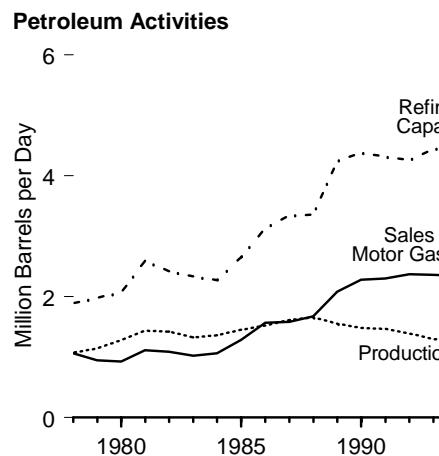
R=Revised. NA=Not available.

Notes: • Major U.S. Energy Companies are the top publicly-owned, U.S.-based crude oil and natural gas producers and petroleum refiners that form the Financial Reporting System (FRS). See Table 3.12.
• Return on investment measured as contribution to net income/net investment in place.

Web Page: <http://www.eia.doe.gov/emeu/finance>.

Sources: • 1974-1976—Energy Information Administration (EIA), Form EIA-28, "Financial Reporting System" database, October 1996. • 1977-1997—EIA, *Performance Profiles of Major Energy Producers*, annual reports. • 1998—EIA, *Performance Profiles of Major Energy Producers, 1998* (January 2000), Table 4.

Figure 3.11 U.S. Energy Activities by Foreign-Affiliated Companies, 1978-1997



¹ Crude oil and natural gas liquids.

² Expenditures for exploration and development of uranium.

³ Nominal dollars.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 3.11.

Table 3.11 U.S. Energy Activities by Foreign-Affiliated Companies, 1978-1997

Year	Production			Refining Capacity	Sales of Motor Gasoline	Expenditures for Exploration and Development of Uranium
	Crude Oil and Natural Gas Liquids	Dry Natural Gas	Coal			
Year	Thousand Barrels per Day	Billion Cubic Feet	Million Short Tons	Thousand Barrels per Day		Million Dollars ¹
1978	1,076	783	24	1,895	1,066	39
1979	1,145	786	29	1,984	948	34
1980	1,280	776	31	2,066	926	38
1981	1,438	1,080	106	2,595	1,114	25
1982	1,421	1,055	138	2,423	1,092	15
1983	1,325	924	128	2,337	1,022	5
1984	1,365	1,075	153	2,276	1,066	7
1985	1,455	1,093	147	2,656	1,285	6
1986	1,523	1,276	146	3,133	1,565	12
1987	1,614	1,318	181	3,342	1,586	12
1988	1,659	1,392	195	3,356	1,673	9
1989	1,553	1,452	207	4,243	2,084	6
1990	1,481	1,457	254	4,379	2,282	3
1991	1,469	1,360	238	4,312	2,299	4
1992	1,392	1,368	259	4,256	2,369	8
1993	1,299	1,451	254	4,440	2,362	9
1994	1,261	1,439	295	4,479	2,346	2
1995	R1,103	R1,191	316	R4,164	2,204	2
1996	R1,105	R1,265	R332	R4,050	2,145	4
1997	1,151	1,268	327	3,637	1,998	4
Share of U.S. Total (Percent)						
1978	10.5	3.9	3.1	10.9	13.6	12.5
1979	11.3	4.0	3.8	11.0	13.5	10.8
1980	12.6	4.0	3.8	11.1	14.1	14.1
1981	14.1	5.6	12.9	14.5	16.9	17.0
1982	13.9	5.9	16.6	14.4	16.7	19.8
1983	12.9	5.8	16.5	14.4	15.4	13.0
1984	12.9	6.2	17.3	14.5	15.9	24.9
1985	13.7	6.7	16.8	17.2	18.8	27.9
1986	14.8	8.0	16.5	20.1	22.2	54.3
1987	16.1	8.0	19.8	21.0	22.0	60.4
1988	16.9	8.1	20.6	21.4	22.8	44.2
1989	16.8	8.4	21.2	27.2	28.4	41.2
1990	16.5	8.2	24.7	27.9	31.5	14.6
1991	16.0	7.7	24.0	27.5	32.0	19.7
1992	15.5	7.7	26.0	28.1	32.6	55.2
1993	14.7	8.0	27.0	29.5	31.6	76.0
1994	14.6	7.7	28.6	29.2	30.9	51.0
1995	R12.8	R6.4	30.7	27.1	29.0	35.0
1996	R12.8	R6.7	R31.2	26.2	R26.5	44.0
1997	13.4	6.7	30.0	23.0	24.4	14.0

¹ Nominal dollars.

R=Revised.

Web Page: <http://www.eia.doe.gov/emeu/finance>.

Sources: • 1978-1992—Energy Information Administration (EIA), *Profiles of Foreign Direct Investment*

in U.S. Energy, annual report. • 1993—EIA, *Profiles of Foreign Direct Investment in U.S. Energy* 1993 (May 1995), Tables 7, 9, 10, 11, and 12. • 1994-1996—EIA, *Performance Profiles of Major Energy Producers*, annual reports. • 1997—EIA, *Performance Profiles of Major Energy Producers* 1998 (January 2000), Tables 33, 34, 35, 38, and 39.

Table 3.12 Companies Reporting to the Financial Reporting System, 1974-1998

Company	1974-1981	1982	1983-84	1985-86	1987	1988	1989-90	1991	1992-93	1994-96	1997	1998
Amerada Hess Corporation	X	X	X	X	X	X	X	X	X	X	X	X
American Petrofina Inc. ¹	X	X	X	X	X	X	X					
Amoco Corporation ^{2,3}	X	X	X	X	X	X	X	X	X	X	X	X
Anadarko Petroleum Corporation								X	X	X		
Ashland Oil, Inc. ⁴	X	X	X	X	X	X	X	X	X	X	X	X
Atlantic Richfield Co. (ARCO)	X	X	X	X	X	X	X	X	X	X	X	X
BP America, Inc. ^{3,5}	X	X	X	X	X	X	X	X	X	X	X	X
Burlington Northern Inc. ⁶	X	X	X	X	X							
Burlington Resources Inc. ⁶						X	X	X	X	X	X	X
Chevron Corporation ^{7,8}	X	X	X	X	X	X	X	X	X	X	X	X
Citgo Petroleum Corporation												X
Cities Service ⁹	X	X										
Clark Refining and Marketing, Inc.												X
The Coastal Corporation	X	X	X	X	X	X	X	X	X	X	X	X
Conoco ^{10,11}	X											X
E.I. du Pont de Nemours and Co. ^{10,11}		X	X	X	X	X	X	X	X	X	X	X
Enron Corporation									X	X	X	X
Equilon Enterprises, LLC ¹²												X
Exxon Corporation ¹³	X	X	X	X	X	X	X	X	X	X	X	X
Fina, Inc. ¹								X	X	X	X	X
Getty Oil ¹⁴	X	X	X									
Gulf Oil ⁸	X	X	X									
Kerr-McGee Corporation ¹⁵	X	X	X	X	X	X	X	X	X	X	X	X
LYONDELL-CITGO Refining, LP ¹⁶												
Marathon ¹⁷	X											
Mobil Corporation ^{13,18}	X	X	X	X	X	X	X	X	X	X	X	X
Motiva Enterprises, LLC ¹⁹												
Nerco, Inc. ²⁰												X
Occidental Petroleum Corporation ⁹	X	X	X	X	X	X	X	X	X	X	X	X
Oryx Energy Company ^{15,21}						X	X	X	X	X	X	X
Phillips Petroleum Company	X	X	X	X	X	X	X	X	X	X	X	X
Shell Oil Company	X	X	X	X	X	X	X	X	X	X	X	X
Sonat Inc.												X
Standard Oil Co. (Ohio) (Sohio) ⁵	X	X	X	X								
Sun Company, Inc. ^{21,22}	X	X	X	X	X	X	X	X	X	X		X
Superior Oil ¹⁸	X	X	X									
Tenneco Inc. ²³	X	X	X	X	X	X						
Tesoro Petroleum Corporation												X
Texaco Inc. ¹⁴	X	X	X	X	X	X	X	X	X	X	X	X
Tosco Corporation												X
Total Petroleum (North America) Ltd. ²⁴							X	X				
Ultramar Diamond Shamrock Corporation												X
Union Pacific Resources Group, Inc. ²⁵	X	X	X	X	X	X	X	X	X	X	X	X
Unocal Corporation	X	X	X	X	X	X	X	X	X	X	X	X
USX Corporation ¹⁷	X	X	X	X	X	X	X	X	X	X	X	X
Valero Energy Corporation												X
The Williams Companies, Inc.												X

Footnotes: See the following page.

Note: "X" indicates that the company was included in the FRS for the year indicated.

Web Page: <http://www.eia.doe.gov/emeu/finance>.

Source: Energy Information Administration, Form EIA-28, "Financial Reporting System."

Footnotes for Table 3.12

¹American Petrofina, Inc. changed its name to Fina, Inc., effective April 17, 1991.

²Formerly Standard Oil Company (Indiana).

³Amoco merged with British Petroleum plc and became BP Amoco plc on December 31, 1998. BP America was renamed BP Amoco, Inc. The companies reported separately for 1998.

⁴Ashland was dropped from the Financial Reporting System (FRS) for 1998 after spinning off downstream and coal operations and disposing of upstream operations.

⁵In 1987, British Petroleum acquired all shares in Standard Oil Company (Ohio) that it did not already control and renamed its U.S. affiliate, BP America, Inc.

⁶Burlington Resources was added to the FRS and Burlington Northern was dropped for 1988. Data for Burlington Resources covers the full year 1988 even though that company was not created until May of that year.

⁷Formerly Standard Oil Company of California.

⁸Chevron acquired Gulf Oil in 1984, but separate data for Gulf continued to be available for the full 1984 year.

⁹Occidental acquired Cities Service in 1982. Separate financial reports were available for 1982, so each company continued to be treated separately until 1983.

¹⁰DuPont acquired Conoco in 1981. Separate data for Conoco were available for 1981; DuPont was included in the FRS in 1982.

¹¹Dupont was dropped from the FRS when Conoco was spun-off in 1998. Conoco began reporting separately again in 1998.

¹²Equilon is a joint venture combining Shell's and Texaco's western and midwestern U.S. refining and marketing businesses and nationwide trading transportation and lubricants businesses. Net income is duplicated in the FRS system since Shell and Texaco account for this investment using the equity method.

¹³In December 1998, Exxon and Mobil agreed to merge. Both companies reported separately for 1998.

¹⁴Texaco acquired Getty in 1984; however, Getty was treated as a separate FRS company for that year.

¹⁵In 1998, Kerr-McGee and Oryx merged. The financial reporting for both was consolidated under Kerr-McGee for 1998.

¹⁶LYONDELL-CITGO is a limited partnership owned by Lyondell Chemical Company and Citgo. There will be some duplication of net income since Citgo accounts for its investment using the equity method.

¹⁷U.S. Steel (now USX) acquired Marathon in 1982.

¹⁸Mobil acquired Superior in 1984, but both companies were treated separately for that year.

¹⁹Motiva is a joint venture approximately equally owned by Shell, Texaco and Saudi Refining, Inc. The joint venture combines the company's Gulf and east coast refining and marketing businesses. Duplication exists for the net income related to Shell's and Texaco's interests, which are accounted for under the equity method.

²⁰RTZ America acquired the common stock of Nerco, Inc., on Feb. 17, 1994. In Sept. 1993, Nerco, Inc. sold Nerco Oil & Gas, Inc., its subsidiary. Nerco's 1993 submission includes operations of Nerco Oil & Gas, Inc., through Sept. 28, 1993.

²¹Sun Company spun off Sun Exploration and Development Company (later renamed Oryx Energy Company) during 1988. Both companies were included in the FRS system for 1988; therefore, some degree of duplication exists for that year.

²²Sun company withdrew from oil and gas exploration and production in 1996. Sun's 1996 submission includes oil and gas exploration and production activities through September 30, 1996. Refining/marketing activities are included for the entire 1996 calendar year.

²³Tenneco sold its worldwide oil and gas assets and its refining and marketing assets in 1988. Other FRS companies purchased approximately 70 percent of Tenneco's assets.

²⁴Effective June 1, 1991, Total's exploration, production, and marketing operations in Canada were spun off to Total Oil & Gas, a new public entity.

²⁵Effective October 15, 1996, Union Pacific Corporation distributed its ownership in the Union Pacific Resources Group, Inc. to its shareholders. Prior to 1996, the FRS included Union Pacific Corporation. The FRS system includes only Union Pacific Resources Group, Inc. for 1996.

Sources

Table 3.5

Sources: **Natural Gas:** • 1949-1962—Bureau of the Census, *U.S. Imports of Merchandise for Consumption*, FT110. • 1963—Bureau of the Census, *U.S. Imports of Merchandise for Consumption*, FT125. • 1964-1971—Bureau of the Census, *U.S. Imports for Consumption and General Imports*, FT246. • 1972 and 1973—Federal Power Commission, *Pipeline Imports and Exports of Natural Gas-Imports and Exports of LNG*. • 1974-1977—Federal Power Commission, *United States Imports and Exports of Natural Gas*, annual reports. • 1978-1981—Energy Information Administration (EIA), *U.S. Imports and*

Exports of Natural Gas, annual reports. • 1982-1992—EIA, *Natural Gas Monthly*, monthly reports. 1993-1998—EIA, *Natural Gas Monthly*, (August 1999). • 1999—EIA estimates. **Crude oil and Petroleum Products:** • 1949-1962—Bureau of the Census, *U.S. Imports of Merchandise for Consumption*, FT110. • 1963—Bureau of the Census, *U.S. Imports of Merchandise for Consumption*, FT125. • 1964-1988—Bureau of the Census, *U.S. Imports for Consumption*, FT135. • 1989-forward—Bureau of the Census, Foreign Trade Division, *U.S. Merchandise Trade*, FT900, “Exports and Imports of Goods by Principal SITC Commodity Groupings,” December issues. **Coal:** • 1949-forward—Bureau of the Census, Foreign Trade Division, unpublished data.